2800 Corporate Exchange Drive
Suite 400
Columbus, OH 43231
614-794-7080

CESO
cesoinc.com



Letter of Transmittal

Attn:	**Development Services Dept.**	**Date:**	9/19/22	**Job #: 756995-01**
To:	**Butler County Engineer's Office**	**Phone:**	**614-942-3017**	
	1921 Fairgrove Avenue	**Email:**	**lonchor@cesoinc.com**	
	Hamilton, OH 45011	**Re:**	**Casey's – Hamilton, OH**	

We are sending you attached via Fedex the following items:

Copies	Date	Description
1	09/19/22	Civil Plan Set – 11x17"
1	09/19/22	Driveway Permit Application

These are transmitted:

	For Distribution		For Your Use	x	As Requested		For Signature	x	For Approval

Notes: If you should have any questions, please feel free to contact me at 614-942-3017 or via email at lonchor@cesoinc.com.

Submitted: Jeff Lonchor, P.E.

BUTLER COUNTY ENGINEER'S OFFICE

BCEO

GREGORY J. WILKENS, P.E., P.S. BUTLER COUNTY ENGINEER

www.bceo.org

BUTLER COUNTY ENGINEER'S OFFICE
1921 FAIRGROVE AVENUE
HAMILTON, OH 45011-1965
513-867-5744 or 513-424-9144 FAX 513-867-5849
GREGORY J. WILKENS, P.E., P.S.
BUTLER COUNTY ENGINEER

RECEIVED
SEP 20 2022
BY: ESP

BCEO-DW22-00457 VOID

DRIVEWAY PERMIT APPLICATION 458

Application is hereby made to work within the county or township roadway right-of-way limits by:

OWNER MAILING ADDRESS

NAME Casey's Marketing Company

STREET 1 SE Convenience Blvd.

CITY Ankeny STATE IA

ZIP 50021 PHONE (515) 381-5722

BUILDER MAILING ADDRESS

NAME GC - TBD

STREET

CITY STATE

ZIP PHONE ( )

(check) EXISTING DRIVE _____ NEW DRIVE X PARCEL NO. (required) A0300172000001

ROAD Princeton Rd. HOUSE NUMBER 2994 TOWNSHIP Fairfield

N
W + E SIDE OF ROAD N BETWEEN Walden Pond Cir. ~~RD~~ and Winford Ave. ~~RD~~
S

Brief Description of Work: Construction of a proposed RI/RO drive onto Princeton Rd. at the SW corner of the proposed site.

GENERAL INFORMATION & PROCEDURES

1. Only one permit application per driveway need be completed.
2. Stake driveway location with two white stakes indicating the approximate width of the proposed driveway. (Minimum drive width 10'; maximum drive width 20'). Note: Curb and Gutter driveways do not need to be staked.
3. The County Engineer's Office will make an inspection of the proposed drive location to determine the size of the pipe and specifications for installation. The drive may require relocation as necessary to meet minimum sight distance requirements prior to permit approval.
4. The County Engineer's Office will mail the applicant the permit and a drawing with driveway specifications and/or pipe installation instructions, and standards for mailbox installation.
5. After installing the pipe and driveway, please call the Butler County Engineer's Office at 513-785-4119 for a construction inspection.
6. When the driveway has passed the construction inspection, the permit will be released to the Butler County Building Department.
7. A third and final driveway inspection and mailbox inspection is required for Release of Occupancy Permit by the Butler County Building Department. Please call the Butler County Engineer's Office at 513-785-4119 for an inspection.

I, the undersigned, understand that the Butler County Engineer assumes no responsibility or liability for the work done under this permit and that all work shall be done at no cost to the County. All work shall be done as applicable, in accordance with the State of Ohio Department of Transportation Construction and Materials Specification, the Ohio Manual of Uniform Traffic Control Devices, and any supplemental and special provisions deemed necessary or as stated on the permit as special provisions or conditions. The County Engineer reserves the right to order the removal, reconstruction, relocation, or repair of any work performed under a permit at the owner's expense. The County Engineer or his representative may revoke or annul any permit or halt work at any time for non-compliance or non-performance of the conditions set forth in the application or permit. The County Engineer reserves the right to appoint an inspector over the work.

I hereby agree to all terms, conditions, and restrictions so far as they apply to work to be done under the permit as issued and general provisions listed above. Jeff Lonchor 9.19.2022

Applicant's signature / title (on line above) **Date**

applicant - info below

Permit to be mailed to (check one): _____ Owner _____ Builder, or _____ picked up at the Butler County Engineer's Office.

Note: The driveway must pass inspection before your building permit can be released. Non-compliance with the above procedures could delay issuance of your building permit.

Applicant: Jeff Lonchor
2800 Corporate Exchange Dr. Suite 400
Columbus, OH 43231

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FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO

SITE IMPROVEMENTS

FOR

CASEY'S #3847

2994 PRINCETON ROAD

HAMILTON, OH 45011

OWNER/DEVELOPER:
CASEY'S GENERAL STORES, INC.
ONE SE CONVENIENCE BLVD.
ANKENY, IA 50021
PHONE: (515) 446-6402
CONTACT: ERIK NIKKEL

ENGINEER:
CESO, INC.
2800 CORPORATE EXCHANGE DR. SUITE 400
COLUMBUS, OH 43231
PHONE: (614) 942-3017
CONTACT: JEFF LONCHOR
EMAIL: LONCHOR@CESOINC.COM

GOVERNING AGENCIES AND UTILITY COMPANIES

SEWER:
BUTLER COUNTY WATER & SEWER
PHONE: (513) 785-5288
CONTACT: STEVEN THOMPSON
EMAIL: WATER.BCOHIO.US

GAS SERVICE:
DUKE ENERGY GAS RECORDS
PHONE: (513) 287-4625
CONTACT: JEREMY PRATT
EMAIL: JEREMY.PRATT@DUKE-ENERGY.COM

WATER:
BUTLER COUNTY WATER & SEWER
PHONE: (513) 785-5288
CONTACT: STEVEN THOMPSON
EMAIL: WATER.BCOHIO.US

COMMUNICATIONS:
CINCINNATI BELL FIELD OPERATIONS
PHONE: (513) 565-7163
CONTACT: TIM SEESTEDT
EMAIL: TIM.SEESTEDT@CINBELL.COM

STORMWATER:
BUTLER COUNTY ENGINEER'S OFFICE
PHONE: (513) 785-4121
CONTACT: ERIC POTTENGER
EMAIL: POTTENGERE@BCEO.ORG

ELECTRIC:
DUKE ENERGY ELECTRIC
PHONE: (513) 682-2986
CONTACT: LOGAN SCHULTZ
EMAIL: LOGAN.SCHULTZ@DUKE-ENERGY.COM

ZONING:
FAIRFIELD TOWNSHIP PLANNING & ZONING
PHONE: (513) 785-2266
CONTACT: CHUCK GOINS
EMAIL: CGOINS@FAIRFIELDTWP.ORG

LEGEND

EXISTING FEATURES LEGEND
APPLIES TO ALL CIVIL SHEETS

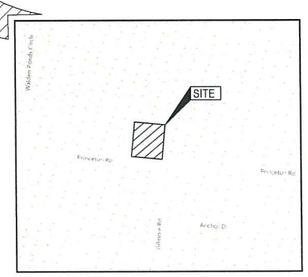
RIGHT OF WAY LINE	SITE BENCHMARK
PARCEL LINE	IRON PIPE FOUND AS NOTED
SUBJECT PROPERTY BOUNDARY LINE	IRON PIN FOUND AS NOTED
EASEMENT LINE	CONCRETE BOLLARD POST
CURB	ELECTRIC METER
EDGE OF PAVEMENT	ELECTRIC BOX
EDGE OF WALK	TELEPHONE BOX
PAVEMENT MARKINGS	TELEPHONE POLE
STORM SEWER	LIGHT POLE
SANITARY SEWER	POWER & TELEPHONE POLE
WATER LINE	POWER POLE
GAS LINE	LARGE ROCK
OHHC ELECTRIC LINE	SANITARY MANHOLE
UGHD ELECTRIC LINE	CLEANOUT
UGHD TELECOMM LINE	WATER VALVE
MAJOR CONTOUR	FIRE HYDRANT
MINOR CONTOUR	CATCH BASIN
	CATCH BASIN
	CURB INLET
	DRAINAGE MANHOLE
	GAS METER / REGULATOR
	GAS VALVE
	MAILBOX
	SIGN
	POST

Sheet List Table

Sheet Number	Sheet Title
C-001	COVER SHEET
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C-602	CIVIL DETAILS
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C-605	CONSTRUCTION DETAILS
C-701	LANDSCAPE PLAN

RECEIVED
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BY: EJP





VICINITY MAP
NO SCALE

N

BENCHMARK

	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0059, NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN.
BM #1514	752.88	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE, LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88
NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

OHIO Utilities Protection SERVICE
811 or 1-800-362-2764
Call Before You Dig

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NO.	DATE	REVISION DESCRIPTION
1	07/29/2021	COUNTY REVIEW COMMENTS
2	08/25/2021	DUKE REVIEW COMMENTS
3	09/16/2021	CWA REVISIONS, RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

COVER SHEET

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO. C-001

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH BUTLER COUNTY AND ALL UTILITY PROVIDERS LOCATED ON-SITE AND IN THE RIGHT OF WAY.
2. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK PER BUTLER COUNTY PROJECT SPECIFICATIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL OHIO UTILITY PROTECTION SERVICE AND THEN TO CONTACT ALL UTILITY COMPANIES TO SCHEDULE UTILITY SERVICE REMOVAL AND/OR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED AND/OR RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE 2012 ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND BUTLER COUNTY PROJECT SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSAL IN A LOCATION APPROVED BY THE GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, DRAINAGE STRUCTURES, UTILITIES, ETC, SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS. AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL PROVIDE SAFETY RAILINGS AT ALL AREAS WHERE FALL PROTECTION IS REQUIRED.
7. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED TO ANY OF THE SURROUNDING PAVEMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
8. SAWCUT AND REMOVE TO FULL DEPTH AT ALL PAVEMENT/SIDEWALK LIMITS OR TO EXISTING JOINTS.
9. CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE, FREE OF STANDING WATER DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION.
10. CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
11. EXTENT OF DEMOLITION WORK IS NOT LIMITED TO ONLY WHAT IS SHOWN TO BE DEMOLISHED ON THIS PLAN. DEMOLITION WORK MUST BE COMPLETE SO THE PROPOSED STRUCTURES AND APPURTENANCES CAN BE CONSTRUCTED.
12. ALL POTENTIALLY HAZARDOUS/TOXIC MATERIALS MUST BE REMOVED FROM THE SITE PRIOR TO DEMOLITION, AND PER DIRECTION OF ENVIRONMENTAL ENGINEER.
13. THE REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
14. FEDERAL, STATE AND LOCAL CODE REQUIREMENTS SHALL CONTROL THE DISPOSAL OF DEBRIS RESULTING FROM THE REMOVAL OPERATION.
15. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
16. DEAD SEWER CONNECTIONS OR MAINS BEING REMOVED SHALL BE REMOVED TO THE RIGHT OF WAY (UNLESS PLANS OR THE SANITARY ENGINEER SPECIFY OTHERWISE) AND SEALED AND MADE WATERTIGHT.
17. ALL TRENCHES, HOLES AND PITS RESULTING FORM THE REMOVAL AND ABANDONMENT OF ANY STRUCTURE OR OBSTRUCTION SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
18. TREE REMOVAL AND CLEARING AND GRUBBING SHALL BE PERFORMED PER FEDERAL, STATE AND LOCAL CODE REQUIREMENTS. STUMP SHALL BE REMOVED COMPLETELY, INCLUDING ALL ROOTS.
19. THE CONTRACTOR SHALL STRIP AND REMOVE (OR STOCKPILE) ALL TOPSOIL PRIOR TO COMMENCING WITH ANY EXCAVATION OR DEMOLITION.
20. EXISTING UTILITIES NOT TO BE UTILIZED BY THE NEW DEVELOPMENT SHALL BE CAPPED BY THE CONTRACTOR.

SITE GENERAL NOTES

1. ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB OR FACE OF BUILDING.
2. ALL LIGHT POLES TO BE LOCATED 3' FROM THE BACK OF CURB, AS MEASURED FROM THE FACE OF POLE FOUNDATION, UNLESS OTHERWISE DENOTED ON PLANS.
3. ALL SIGNAGE SHALL COMPLY WITH THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (O.M.U.T.C.D.)
   a. STOP SIGN
   b. DO NOT ENTER
4. ALL PAVEMENT MARKINGS AND STRIPING SHALL COMPLY WITH ODOT AND THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (O.M.U.T.C.D.)
   a. LANE LINE: 6" WHITE
   b. WORDING/LANE USE ARROWS AND HANDICAP AREA: WHITE
   c. PARKING STALLS: 4" YELLOW
   d. STOP LINE: 12" WHITE
5. BOLLARDS SHALL BE PLACED PER PLAN.
6. NEW CURB AND GUTTER ALONG EXISTING STREETS TO MATCH EXISTING CURB AND GUTTER IN KIND. IF UNDER DRAIN EXISTS, IT SHALL BE REPLACED.

GRADING GENERAL NOTES

1. CONTRACTOR SHALL CONSTRUCT SIDEWALKS SUCH THAT 2% IS THE MAXIMUM CROSS SLOPE, AND 5% IS THE MAXIMUM TRANSVERSE SLOPE, AND CURB RAMPS SHALL BE CONSTRUCTED PER DETAILS IN THESE PLANS, AND THE MAXIMUM SLOPES SHALL NOT BE EXCEEDED. FORMS SHALL BE PLACED FOR SIDEWALK AREA, AND THE SLOPES ARE TO BE VERIFIED PRIOR TO PLACING CONCRETE. IF SLOPES BECOME AN ISSUE, CONTRACTOR SHALL CONTACT THE ENGINEER.
2. CURB AND GUTTER SHALL PITCH OUT WHERE GRADING IS SLOPED AWAY FROM THE CURB AND SHALL PITCH IN WHEN GRADING IS SLOPED TOWARDS THE CURB. THE PITCH OF THE GUTTER SHALL MATCH PARKING LOT GRADES.
3. UNLESS OTHERWISE NOTED, ALL SPOT ELEVATIONS SHOWN ARE PAVEMENT ELEVATIONS.

PLANTING GENERAL NOTES:

1. ALL PLANT MATERIAL SHALL BE NORTHERN NURSERY GROWN NO. 1 GRADE AND INSTALLED ACCORDING TO ACCEPTED PLANTING PROCEDURES. ALL PLANT MATERIALS SHALL MEET CURRENT AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. DO NOT PLANT MATERIALS UNTIL DIRECTED BY OWNER/CONSTRUCTION MANAGER. THE OWNER RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL FOR ANY REASON BEFORE OR AFTER IT IS INSTALLED.
2. SIZES SPECIFIED ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE INSTALLED. ANY PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE MUNICIPALITY AND OWNER.
3. ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MUNICIPAL STANDARDS AND IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS IN A NEAT, HEALTH AND WEED FREE CONDITION. ANY DEAD, DISEASED OR DAMAGED PLANT MATERIALS ARE TO BE REPLACED IMMEDIATELY AFTER NOTIFIED TO DO SO. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER PLANTING AND ACCEPTANCE.
4. PLANT TREES AND SHRUBS IN ACCORDANCE WITH PLANTING DETAILS. DIG TREE PITS PER DETAILS. PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE GROWN AT THE NURSERY. IF HEAVY CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS HIGHER, APPROX. ¼ OF THE ROOT BALL ABOVE GRADE.
5. REMOVE ALL TWINE, WIRE, NURSERY TREE GUARDS, TAGS AND INORGANIC MATERIAL FROM ROOT BALLS. REMOVE THE TOP 1/3 OF BURLAP FROM EARTH BALLS AND REMOVE BURLAP FROM AROUND TRUNK.
6. BRICK CHIPS OR WASHED GRAVEL IS REQUIRED FOR ALL PLANTINGS AND PLANTING BEDS.
7. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES. IF A CONFLICT WITH UTILITIES EXISTS, NOTIFY OWNER/CONSTRUCTION MANAGER PRIOR TO PLANTING.

UTILITY GENERAL NOTES:

1. COORDINATE ALL SITE UTILITY WORK WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.
2. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY CONTRACTOR'S WORK FORCE.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED TO PERFORM THE WORK PROPOSED ON THESE PLANS.
4. EXISTING AND PROPOSED GAS, ELECTRIC, TELEPHONE ASSUMED TO BE 36" COVER.
5. CONTRACTOR TO ENSURE MIN. 10' FOOT HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN WATER AND SANITARY/STORM LINES.
6. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

STORM SEWER GENERAL NOTES:

1. ALL STORM SEWER PIPES SHALL BE MANUFACTURED WITH INTEGRAL BELL AND SPIGOT JOINTS INCLUDING A GASKET, SO AS TO PROVIDE A WATERTIGHT SEAL.
2. ALL STORM SEWER PIPES SHALL BE PVC SDR 35 WATERTIGHT PIPE CONFORMING TO ASTM SPECIFICATION D3034, UNLESS DENOTED OTHERWISE ON PLANS.
3. CONNECTIONS TO STRUCTURES SHALL BE MADE WATERTIGHT WITH NON-SHRINKING AND NON-CORROSIVE GROUT.

WATER GENERAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BUTLER COUNTY SANITARY ENGINEER FOR PIPE, FITTINGS, JOINTS, HYDRANTS, VALVES AND BOXES, TAPPING SADDLES, AND CORPORATION STOPS.
2. WATER SERVICE MATERIAL LARGER THAN 2" SHALL BE DUCTILE IRON IN CONFORMANCE WITH ANSI A21.51 (AWWA C151) DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS, FOR WATER OR OTHER LIQUIDS AND ANSI A21.50 (AWWA C150) THICKNESS DESIGN OF IRON PIPE. ALL SERVICE LINES 2" OR LESS SHALL BE COPPER TYPE K, SIZE TO BE AS NOTED IN PLAN VIEW. SERVICE CONNECTION TO HAVE MINIMUM COVER OF 60" COVER.
3. ALL FITTINGS SHALL BE DUCTILE IRON IN CONFORMANCE WITH AWWA C110 OR AWWA C153. ALL FITTINGS SHALL BE RATED FOR 350 PSI WORKING PRESSURE. HAVE MECHANICAL JOINTS AND BE COATED AND CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104. ALL BOLTS AND NUTS SHALL BE COR-TEN.
4. A TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER.
5. AN 18-INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER AT ALL CROSSINGS.
6. A TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER.
7. AN 18-INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS.

SWPPP GENERAL NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO: SWPPP AND DETAIL PLANS; ACCORDING TO THE LATEST EPA AUTHORIZATION FOR CONSTRUCTION ACTIVITY UNDER THE "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES); ANY AND ALL REQUIRED PERMITS, REPORTS, AND RELATED DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS MUST BECOME FAMILIAR WITH ALL OF THE ABOVE.
2. CONTRACTOR SHALL IMPLEMENT EEST MANAGEMENT PRACTICES (EMPS) AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL EE IMPLEMENTED AS DICTATED EY CONDITIONS AND GRADE CHANGES TO THE SITE AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
3. CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
4. SEDIMENT STRUCTURE AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RE-STABILIZED.
5. PERMANENT SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF VEGETATION, LANDSCAPE TYPE MULCHING, MATTING, SOD, RIP RAP, AND OTHER APPROVED LANDSCAPING TECHNIQUES TO BE APPLIED AS FOLLOWS:
   - WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR ONE (1) YEAR OR MORE.
   - WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM AT FINAL GRADE.
   - WITHIN SEVEN (7) DAYS FOR ANY OTHER AREA AT FINAL GRADE.
6. TEMPORARY SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION, AND OTHER APPROVED TECHNIQUES TO BE APPLIED AS FOLLOWS:
   - WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM NOT AT FINAL GRADE.
   - WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR MORE THAN TWENTY ONE (21) DAYS, BUT LESS THAN ONE (1) YEAR.
   - PRIOR TO THE ONSET OF WINTER WEATHER FOR AREAS THAT WILL BE IDLE OVER WINTER.
7. TEMPORARY SEEDING, MULCHING, AND FERTILIZER SPECIFICATIONS:

   SEEDING: ANNUAL RYEGRASS AT 2.02 POUNDS PER 1,000 S.F.

   MULCHING: STRAW MATERIAL SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT A RATE OF TWO (2) TON/ACRE, OR 80-100 POUNDS PER 1,000 S.F. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITIVE NOXIOUS WEEDS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICAL MEANS, FROM NOVEMBER 01 THRU MARCH 15 INCREASE THE RATE OF STRAW MULCH TO THREE (3) TON/ACRE.

   FERTILIZER: APPLY FERTILIZER AT HALF THE RATE OF PERMANENT APPLICATION AND AS PER ODOT SPECIFICATIONS. IF PROJECT CONDITIONS PREVENT FERTILIZING THE SOIL, THEN THIS ITEM MAY BE WAIVED.
8. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEEDED, AND CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY, NORTH AMERICAN GREEN, INC, OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.
9. NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN DESIGNATED PIT OR DIKED AREAS. WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OFF-SITE WHEN THEY HARDEN, STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS. IN ADDITION, SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUEL AND CHEMICAL SPILLS MUST BE KEPT ON SITE.
10. IF THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE MOST OF THE DIRT AND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. DUST CONTROL USING APPROVED MATERIALS MUST BE PERFORMED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
13. ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION BY THE USE OF BEST MANAGEMENT PRACTICES. THESE AREAS MUST BE SHOWN IN THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS. AT A MINIMUM SILT FENCE TO BE PLACED AT PERIMETER OF STOCKPILE AREA TO PREVENT SOIL FROM LEAVING THE STOCKPILE AREA.
14. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.
15. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR ASPHALT FOR ROAD CONSTRUCTION.
16. THE LAST LAYER OF SOIL, INCLUDING TOP SOIL SHOULD BE COMPACTED TO 80% - 85% OF THE MAXIMUM STANDARD PROCTOR DENSITY. IN AREAS OUTSIDE THE PARKING LOT THAT WILL RECEIVE VEGETATION, THIS IS PARTICULARLY IMPORTANT IN CUT SLOPE AND EMBANKMENT AREAS. IN PAVEMENT AND ISLAND AREAS, IT IS RECOMMENDED THAT THE SOIL BE COMPACTED TO 98% AND 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY RESPECTIVELY. THE LAST COMPACTED LAYER MAY BE SCARIFIED TO IMPROVE THE SOIL GROWTH CHARACTERISTICS.
17. ALL DEWATERING ACTIVITIES SUCH AS PUMPING DOWN OF FLOODED FOUNDATION AND UTILITY TRENCHES MUST PASS THROUGH THE RETROFITTED DETENTION BASIN OR A SEDIMENT CONTROL PRACTICE PRIOR TO LEAVING THE SITE.
18. SILT FENCE AND OTHER PERIMETER EROSION CONTROL MEASURES SHOWN OFF LIMITS OF DISTURBANCE FOR CLARITY PURPOSES ONLY. CONTRACTOR TO ENSURE PERIMETER EROSION CONTROL MEASURES ARE PLACED AT THE LIMITS OF DISTURBANCE. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ENGINEER PRIOR TO PLACEMENT OF ANY EROSION CONTROL MEASURES.
19. CONTRACTOR TO OBTAIN A COMMERCIAL LOT EROSION & SEDIMENT CONTROL PERMIT FROM BUTLER COUNTY STORMWATER DISTRICT DURING BUILDING PERMIT REVIEW. PERMIT APPLICATION CAN BE DOWNLOADED FROM WWW.STORMWATERDISTRICT.ORG

SWPPP MAINTENANCE NOTES

1. ALL CONTROL MEASURES STATED IN THE SWPPP SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL ERCSION AND SEDIMEUTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO THE FOLLOWING:
2. INLET PROTECTION DEVICES AND CONTROLS SHALL BE REPAIRED OR REPLACED WHEN THEY SHOW SIGNS OF UNDERMINING AND OR DETERIORATION. INLET PROTECTION DEVICES SHOULD BE ROUTINELY CLEANED AND MAINTAINED.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
4. MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, AND STORM SEWER SYSTEMS. SEDIMENT DEPOSITION DURING SITE STABILIZATION MUST ALSO BE REMOVED.
7. STONE CONSTRUCTION EXIT TO BE MAINTAINED BY GENERAL CONTRACTOR UNTIL SITE HAS BEEN PAVED OR IS NO LONGER REQUIRED.
8. ALL CATCH BASIN GRATES ARE TO BE PROTECTED WITH INLET BAGS AFTER THEY ARE INSTALLED, THEY SHOULD BE ROUTINELY CLEANED AND MAINTAINED.
9. CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.
10. BRICKS, HARDENING CONCRETE AND SOIL WASTE SHALL BE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.
11. CLEAN CONSTRUCTION WASTES THAT WILL BE DISPOSED INTO THE PROPERTY SHALL BE SUBJECT TO ANY LOCAL PROHIBITIONS FROM THIS TYPE OF DISPOSAL.
12. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL EE DISPOSED OF IN AN APPROVED C&DD LANDFILL. ALSO, MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS.
13. AREA SHALL BE DESIGNATED EY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.
14. EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
15. A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.
16. ALL DESIGNATED CONCRETE WASHOUT AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS OR OTHER STORMWATER DRAINAGE AREAS.
17. ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
18. THE CONTRACTOR SHALL CONTACT THE OHIO EPA, THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.
19. OPEN BURNING IS NOT PERMITTED ON THE SITE.
20. CONTRACTOR TO ENSURE STREETS SHALL BE CLEARED OF DEBRIS FROM SITE AND SWEPT CLEAN ON AN AS NEEDED BASIS.

QUANTITIES SUMMARY

ITEM	QUANTITY	UNIT
6" CONCRETE PAVEMENT, ON-SITE	33,538	SQ. FT.
7" CONCRETE PAVEMENT, APPROACHES	2,156	SQ. FT.
8" CONCRETE PAVEMENT, ON-SITE	1,705	SQ. FT.
CONCRETE CURB, ON-SITE/APPROACHES	915	LIN. FT.
SIDEWALK, NOT ADJACENT TO STORE	146	SQ. FT.
DETENTION SYSTEM	N/A	CU. FT.
WATER MAIN	338	LIN. FT.
SEWER SERVICE - SDR 35 (DIRECT BURY)	67	LIN. FT.
WATER SERVICE - TYPE K SOFT COPPER (DIRECT BURY)	338	LIN. FT.
STORM PIPING - HDPE	414	LIN. FT.
STORM DOWNSPOUT PIPING - PVC	411	LIN. FT.
SANITARY SEWER CLEANOUT	4	EACH
STORM SEWER CLEANOUT	6	EACH
GREASE TRAP	1	EACH
STORM STRUCTURES	5	EACH
NYLOPLAST 30" MANHOLE	1	EACH
WATER QUALITY DEVICE	N/A	EACH
EARTHWORK CUT & HAUL	TBD	CU. YD.
EARTHWORK CUT & RESPREAD	TBD	CU. YD.
EARTHWORK IMPORT & PLACE	TBD	CU. YD.
6' TALL CHAIN LINK FENCE	N/A	LIN. FT.
SOD AREA	22,086	SQ. FT.
SEED AREA	N/A	SQ. FT.
ASPHALT PAVEMENT DEMOLITION, ON-SITE	N/A	SQ. FT.
CONCRETE PAVEMENT DEMOLITION, ON-SITE	N/A	SQ. FT.
GRAVEL DEMOLITION, ON-SITE	N/A	SQ. FT.
BUILDING DEMOLITION - FRAME GARAGE	N/A	SQ. FT.
BUILDING DEMOLITION - ONE AND ONE-HALF STORY HOME	N/A	SQ. FT.
BUILDING DEMOLITION - ONE-STORY FRAME COMMERCIAL	N/A	SQ. FT.
BUILDING DEMOLITION - TWO-STORY FRAME COMMERCIAL	N/A	SQ. FT.

*CONTRACTOR TO PROVIDE A COMPLETE QUANTITIES TABLE PER THE CONSTRUCTION DOCUMENTS. QUANTITIES PROVIDED AS PART OF THIS SUMMARY ARE FOR REFERENCE PURPOSES ONLY AND ARE NOT A BASIS FOR CHANGE ORDER IF ADDITIONAL QUANTITY IS INSTALLED AS PART OF THE ORIGINAL BID DOCUMENTS.

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REVISION DESCRIPTION

NO.	DATE	
1	07/26/2021	COUNTY REVIEW COMMENTS
2	08/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CRA REVISIONS - RESUBMITTAL TO TOWNSHIP

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

GENERAL NOTES

STATE OF OHIO
JEFFREY LONCHOR
E-85206
REGISTERED PROFESSIONAL ENGINEER

ISSUE:
CIVIL PERMIT SET
DATE:
05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO.
C-002

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NO.	DATE	REVISION DESCRIPTION
1	11/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CAMUTY RESOLUTION REVISION
3	07/11/2022	CWA RETAINING / RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY
LONCHOR
E-85208
REGISTERED
PROFESSIONAL ENGINEER

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

ALTA

ISSUE:
CIVIL PERMIT SET
DATE:
05.19.2021

JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-003

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	08/25/2021	CAUPP REVISION RESPONSE
3	09/15/2021	CDA REVIEWS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

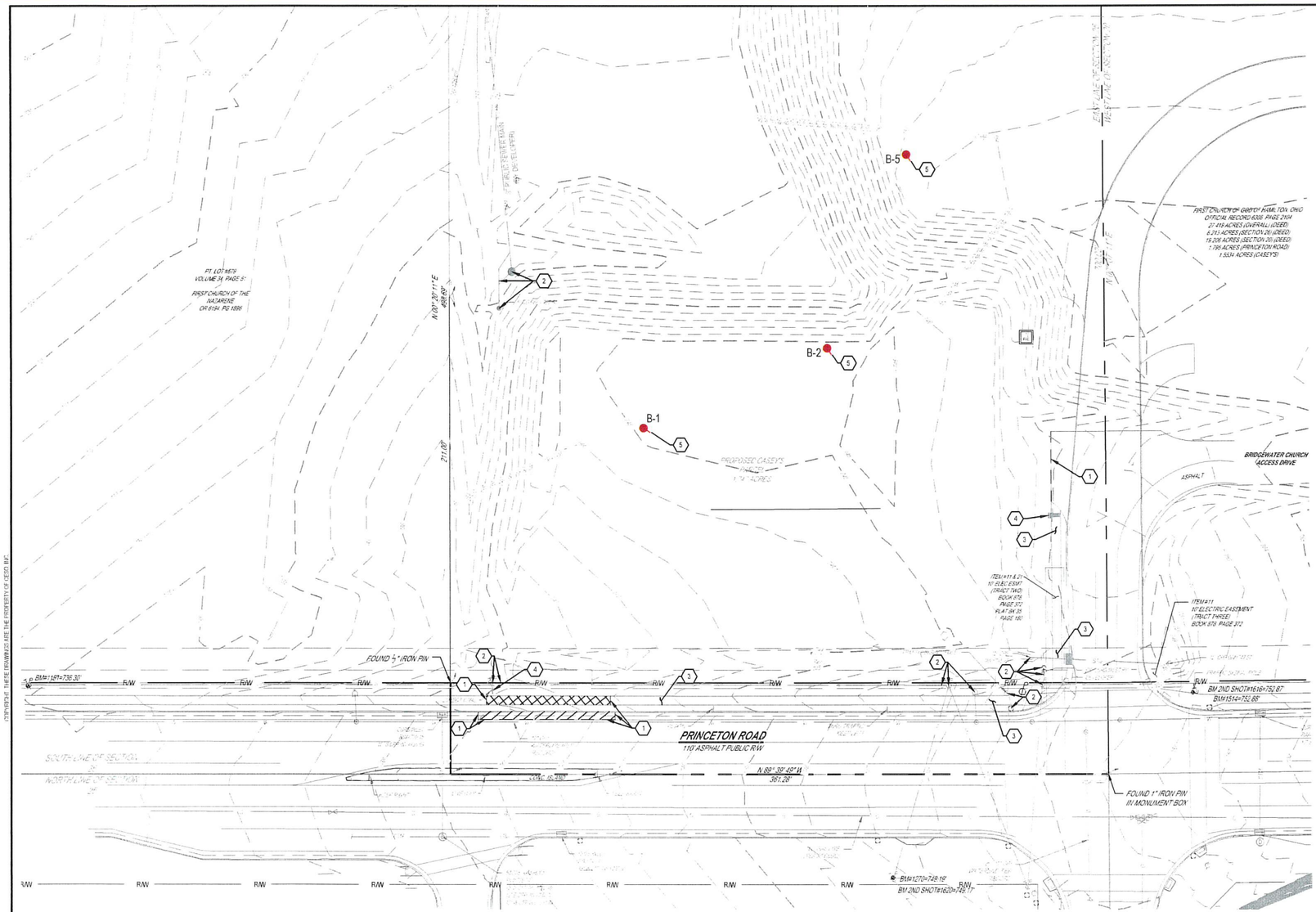
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ISSUE:
CIVIL PERMIT SET
DATE:
05.19.2021

JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-004

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LEGEND

EXISTING

REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER

REMOVE AND DISPOSE OF EXISTING SIDEWALK

CODED NOTES:

1. SAW-CUT LINE FOR EXISTING CURB/WALK TO BE REMOVED.
2. PROTECT EXISTING UTILITY / UTILITY STRUCTURE.
3. PROTECT EXISTING SIDEWALK TO REMAIN.
4. PROTECT EXISTING TRAFFIC SIGN TO REMAIN.
5. APPROXIMATE GEOTECH BORING LOCATION. REFER TO GEOTECH REPORT BY CSI, INC DATED 12/14/2018.

N

30 0 30 60

GRAPHIC SCALE (IN FEET)

BENCHMARK		
	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009, NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-2013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN.
BM #1514	752.86	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE, LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88

NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	09/17/2021	CITY REVIEW COMMENTS
3	01/11/2022	CWA REVISIONS, RESUBMITTAL TO TOWNSHIP

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

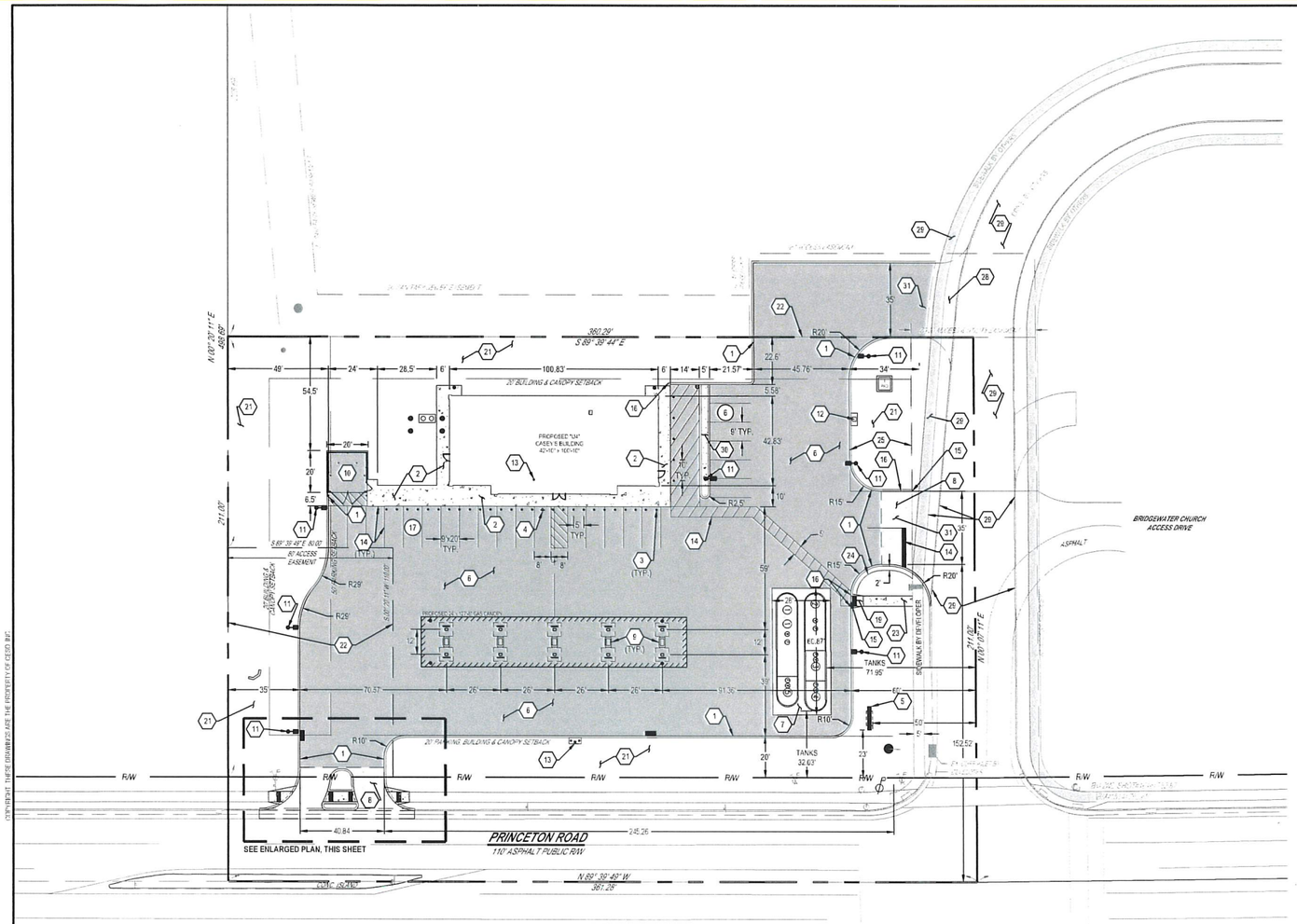
DEMOLITION PLAN

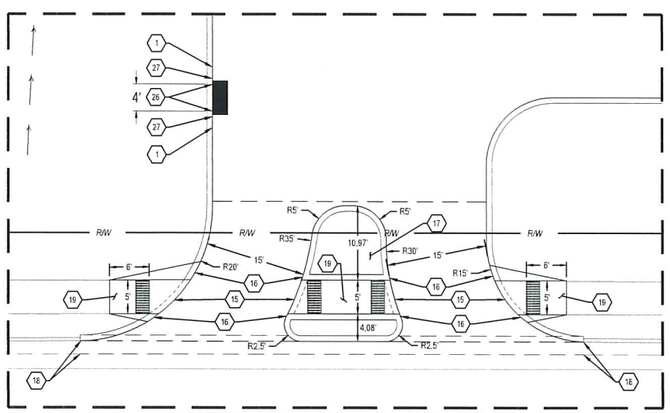
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DATE: 05.19.2021	
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL
SHEET NO.	C-100

STATE OF OHIO
JEFFREY LONCHOR
E-65208
REGISTERED PROFESSIONAL ENGINEER

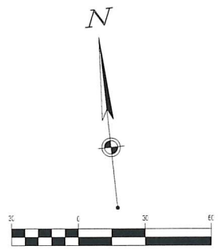
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ENLARGED PLAN: RIGHT-IN / RIGHT-OUT DRIVE AREA
SCALE: 1" = 10'



GRAPHIC SCALE (IN FEET)

LEGEND

EXISTING

REFER TO SHEET C-601 FOR EXISTING FEATURES LEGEND

PROPOSED

- BUILDING
- CANOPY
- CONCRETE CURB
- PAVEMENT/WALK
- PAVEMENT DELINEATION
- EASEMENT LINE
- STANDARD CONCRETE PAVEMENT (SIDEWALK)
- STANDARD CONCRETE PAVEMENT (PARKING)
- APPROACH CONCRETE PAVEMENT
- UGST AREA HEAVY-DUTY CONCRETE PAVEMENT
- PARKING SPACE COUNT
- SIGN
- LIGHT POLE
- CONCRETE BOLLARD
- STORM STRUCTURE
- CLEANOUT

CODED NOTES:

1. PROPOSED 6" INTEGRAL CURB. SEE DETAIL 2 ON SHEET C-601.
2. PROPOSED SIDEWALK. SEE DETAIL 1 ON SHEET C-601.
3. CASEY'S TYPICAL BOLLARD. SEE DETAIL 1 ON SHEET C-601.
4. CONTRACTOR TO INSTALL HANDICAPPED SIGN PER DETAIL 12 ON SHEET C-601 AND ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.
5. CASEY'S MONUMENT SIGN. PER SIGNAGE PLAN.
6. PROPOSED STANDARD CONCRETE PARKING PAVEMENT. SEE DETAIL 2 ON SHEET C-601.
7. PROPOSED UGST AREA HEAVY DUTY CONCRETE PAVEMENT. SEE DETAIL 2 ON SHEET C-601.
8. PROPOSED APPROACH CONCRETE PAVEMENT. SEE DETAIL 2 ON SHEET C-601.
9. PROPOSED GAS TAPERED FUEL ISLAND. SEE DETAIL 1 ON SHEET C-602.
10. PROPOSED 20' X 26' DUMPSTER AND PAD. SEE ARCHITECTURAL PLANS FOR DETAILS.
11. PROPOSED SITE LIGHT POLE. SEE PHOTOMETRIC PLAN FOR DETAILS AND DETAIL ON SHEET C-603.
12. AIR COMPRESSOR BOX MOUNTED TO STEEL POLE. INSTALLED ON CONCRETE PAD 18" FROM BACK OF CURB. 110 VOLT-60HZ-5.5 AMP, 8 GAUGE MIN. RECOMMENDED.
13. EMERGENCY SHUTOFF FOR GASOLINE DISPENSERS. ALL DISPENSERS FALL WITHIN A 100 FOOT RADIUS OF SHUTOFF.
14. PROPOSED PAVEMENT MARKINGS.
15. FLUSH CURB.
16. TRANSITION CURB FROM FLUSH TO FULL HEIGHT IN 12".
17. PROPOSED DRIVEWAY CURB ISLAND. SEE DETAIL 5 ON SHEET C-601.
18. PROPOSED CURB AND GUTTER PER BUTLER COUNTY STANDARDS.
19. PROPOSED CURB RAMP WITH DETECTABLE WARNING SURFACE PER ODOT STD DWG BP-7.1
20. PROPOSED 5' SIDEWALK WITH DETECTABLE WARNING SURFACE WITHIN RIGHT-OF-WAY PER ODOT STD DWG BP-7.1
21. PROPOSED GREENSPACE FOR B-PUD OPEN SPACE REQUIREMENT.
22. PROPOSED CROSS-ACCESS EASEMENT FOR FUTURE DEVELOPMENT.
23. PROPOSED CONCRETE SIDEWALK PER BUTLER COUNTY STANDARDS.
24. PROPOSED LANDSCAPE PROTECTOR. SEE DETAIL 4 ON SHEET C-601.
25. PROPOSED 30' TEMPORARY GRADING EASEMENT FOR WORK BY OTHERS.
26. PROPOSED 3" INTEGRAL CURB FOR EMERGENCY SPILLWAY. REFER TO C-201 FOR FURTHER DETAIL.
27. TRANSITION CURB FROM 3" TO FULL HEIGHT IN 12". REFER TO C-201 FOR FURTHER DETAIL.
28. PHASE II DRIVE-WAY. TO BE BUILT IF ADJACENT DRIVE IS CONSTRUCTED. OTHERWISE. DEVELOPER IS RESPONSIBLE FOR COMPLETION WHEN ROAD IS COMPLETED IN THE SPRING.
29. PHASE II ROAD AND SIDEWALK BY OTHERS.
30. PROPOSED CONCRETE ISLAND.
31. CONTRACTOR TO COORDINATE CONSTRUCTION OF ACCESS DRIVE TIE-IN WITH CONSTRUCTION OF ADJACENT ROAD. NORTH ACCESS SHALL BE INSTALLED FULLY IF ADJACENT DRIVE IS CONSTRUCTED PRIOR TO WINTER CONDITIONS HALTING PLACEMENT OF ASPHALT. SOUTH ACCESS SHALL ONLY BE CONSTRUCTED UPON ADJACENT DRIVE NOT BEING COMPLETED BEFORE END OF CALENDAR YEAR.

SITE DATA	
TOTAL SITE AREA	1.747 AC (76,099 SF)
PROPOSED IMPERVIOUS AREA	1.018 AC (44,364 SF, 58%)
PROPOSED OPEN SPACE AREA	0.729 AC (31,735 SF, 42%)

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NO.	DATE	REVISION DESCRIPTION
1	07/30/2021	COUNTY REVIEW COMMENTS
2	09/29/2021	CANOPY REDUCTION REVISION
3	07/11/2022	CMA REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-65206
REGISTERED PROFESSIONAL ENGINEER

Casey's

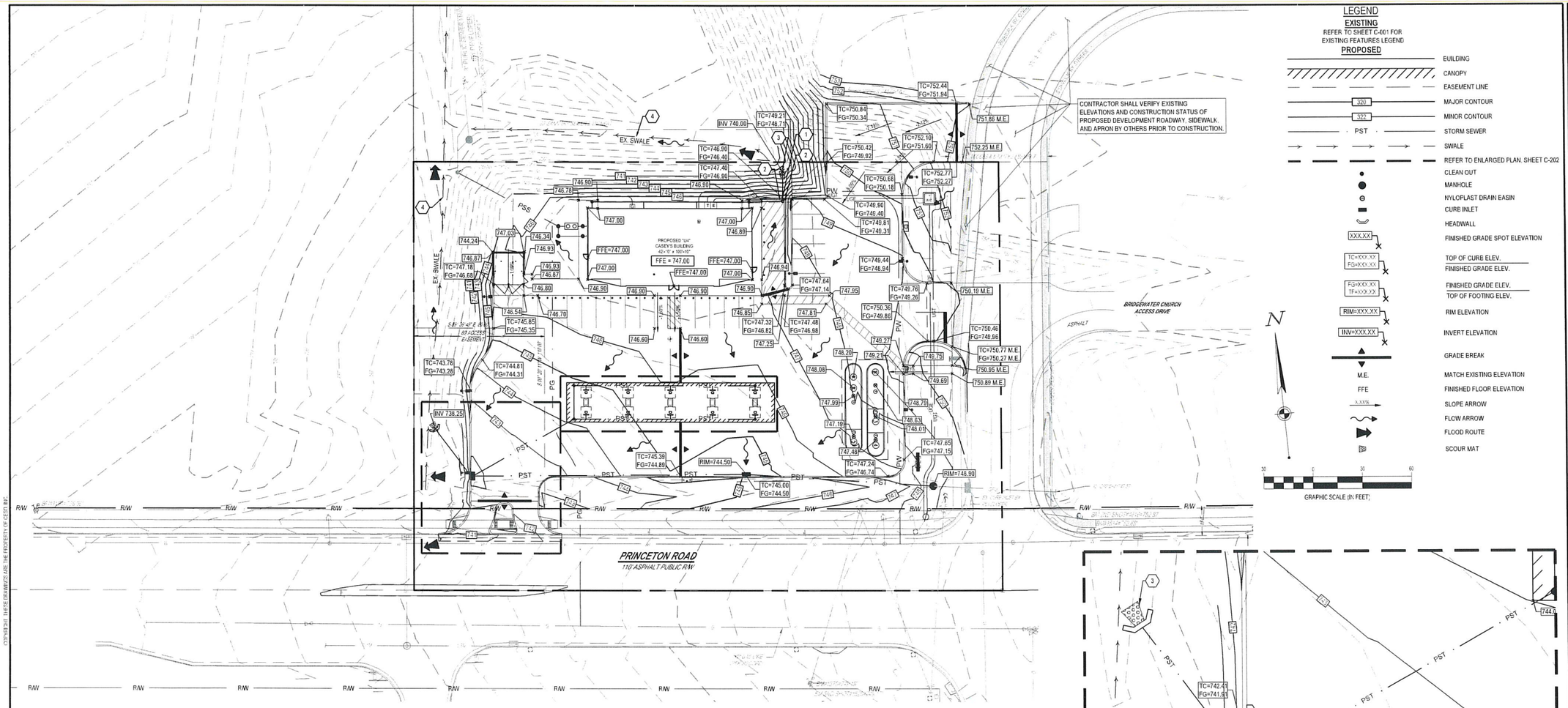
CASEY'S
HAMILTON, OH
2984 PRINCETON RD
HAMILTON, OH 45011

SITE PLAN

ISSUE:	CIVIL PERMIT SET
DATE:	05.19.2021
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL
SHEET NO.	C-101

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CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND CONSTRUCTION STATUS OF PROPOSED DEVELOPMENT ROADWAY, SIDEWALK, AND APRON BY OTHERS PRIOR TO CONSTRUCTION.

LEGEND

EXISTING

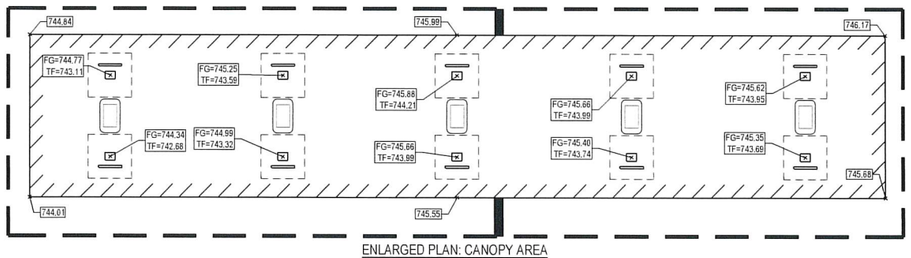
REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

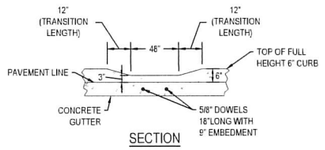
- BUILDING
- CANOPY
- EASEMENT LINE
- 320 MAJOR CONTOUR
- 322 MINOR CONTOUR
- PST STORM SEWER
- SWALE
- REFER TO ENLARGED PLAN. SHEET C-202
- CLEAN OUT
- MANHOLE
- NYLOPLAST DRAIN EASIN
- CURE INLET
- HEADWALL
- XXX.XX FINISHED GRADE SPOT ELEVATION
- TC=XXX.XX / FG=XX.XX TOP OF CURE ELEV. / FINISHED GRADE ELEV.
- FG=XX.XX / TF=XX.XX FINISHED GRADE ELEV. / TOP OF FOOTING ELEV.
- RIM=XXX.XX RIM ELEVATION
- INV=XXX.XX INVERT ELEVATION
- GRADE BREAK
- M.E. MATCH EXISTING ELEVATION
- FFE FINISHED FLOOR ELEVATION
- SLOPE ARROW
- FLOW ARROW
- FLOOD ROUTE
- SCOUR MAT

CODED NOTES:

1. PROPOSED 4-FT WIDE EMERGENCY SPILLWAY. REFER TO DETAIL THIS SHEET.
2. TRANSITION CURB FROM 3" TO FULL HEIGHT IN 12". REFER TO DETAIL THIS SHEET.
3. ROCK CHANNEL PROTECTION. TYPE 'D'.
4. EXISTING SWALE BY DEVELOPER.



ENLARGED PLAN: CANOPY AREA
1" = 10'



SECTION

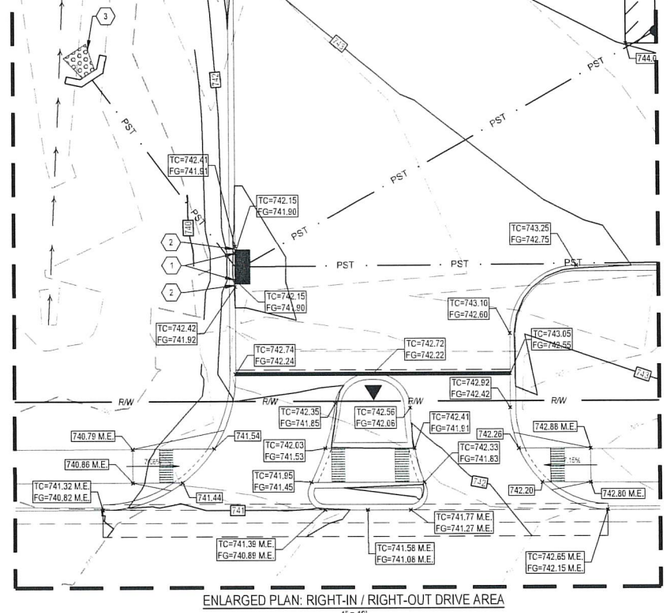
NOTES:

1. CONTRACTOR TO ENSURE EMERGENCY SPILLWAY ELEVATIONS MATCH SPOT ELEVATIONS DENOTED ON PLAN..

4-FT WIDE EMERGENCY SPILLWAY

W/ 3" VERTICAL OPENING IN CURB

NTS



ENLARGED PLAN: RIGHT-IN / RIGHT-OUT DRIVE AREA
1" = 10'

BENCHMARK		
	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH4009. NORTH SIDE OF PRINCETON ROAD. SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION. NORTH OF POPEYE'S CHICKEN.
BM #1514	752.88	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE. LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM NAVD88

NOTE: REFER TO ALTA SURVEY SHEET C-003 FOR BENCHMARK LOCATIONS.

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NO.	DATE	REVISION DESCRIPTION
1	3/29/2021	COUNTY REVIEW COMMENTS
2	05/25/2021	CANOPY REVISION REVISION
3	07/11/2022	CMA REVISIONS - REFLIMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER

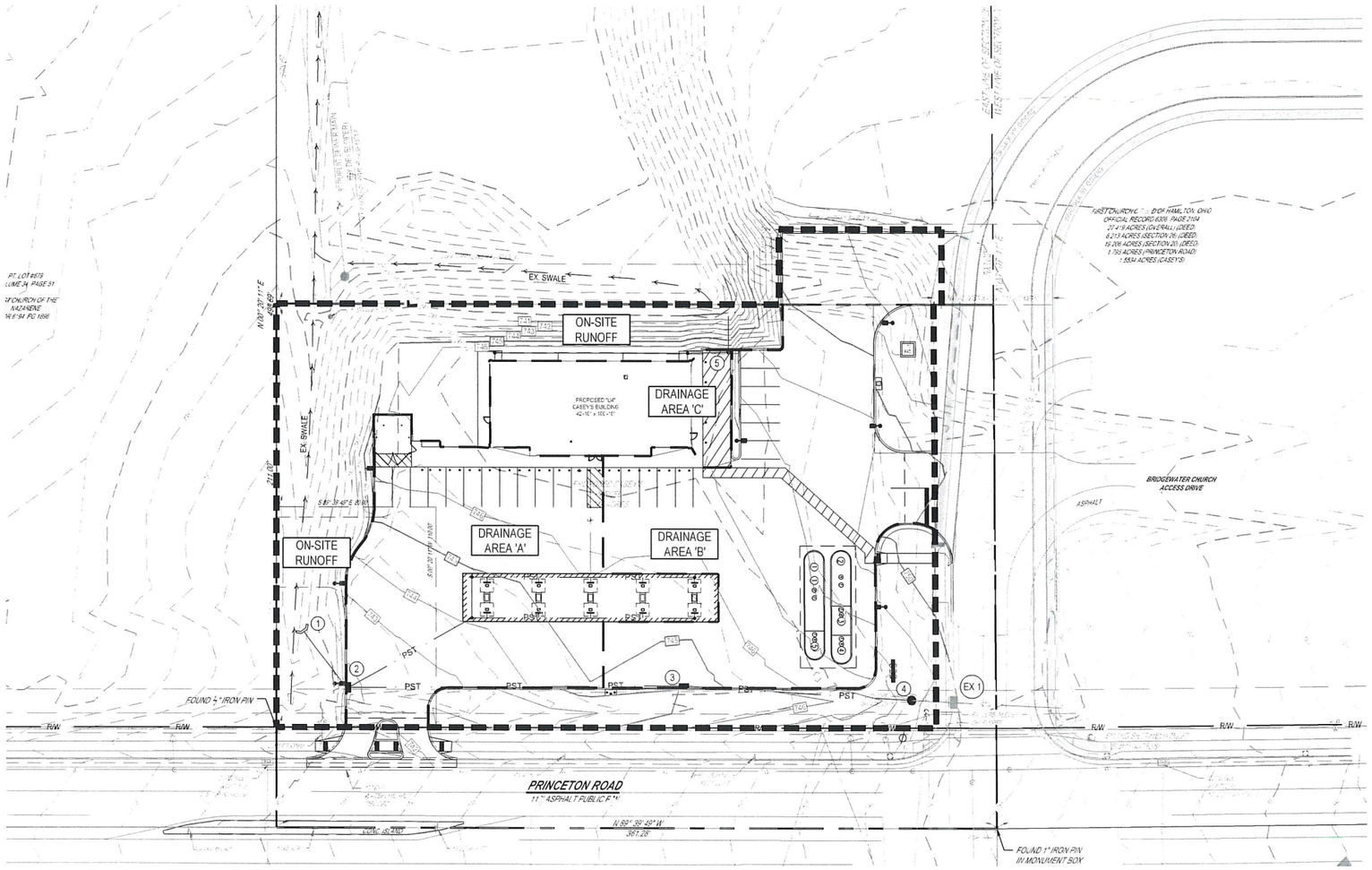
Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

GRADING PLAN

ISSUE:	CIVIL PERMIT SET
DATE:	05.19.2021
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL
SHEET NO.	C-201

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LEGEND

PROPOSED

- BUILDING
- CANOPY
- 326 MAJOR CONTOUR
- 324 MINOR CONTOUR
- STM STORM SEWER
- DRAINAGE AREA BOUNDARY

N

30 0 30 60

GRAPHIC SCALE (IN FEET)

STORM SEWER CALCULATIONS

CESO

Inlet Location	Runoff Coefficient "C"	Drainage Area "A"	C*A	Σ(C*A)	Inlet or Conduit Travel Time	Time of Concentration	Rainfall Intensity 10 year Storm	Runoff Q=Σ(C*A)	Other Controlled Runoff	Total Runoff "Q"	Pipe Diameter	Length "L"	% Slope	Inv. of Inlet	Inv. of Outlet	Full Capacity	Velocity	Cover	Rainfall Intensity 10 year Storm	Total Runoff "Q"	% Slope	Head Loss	Elevation of Hydraulic Gradient	Top of Casting
		Acres			Min	Min.	in./hr.	cfs	cfs.	cfs.	in.	fl.				cfs	fps.	ft.	in./hr.	cfs		ft.		
Storm Profile 1 - EX 1																								
EX 1	0.53	0.84	0.45	0.45	0.1	10.0	5.36	2.41		**2.41**					746.78				5.36	2.4				750.35
											12	21.2	1.23			**3.96**	5.0	2.57			0.45%	0.10		
4				0.45	0.6	10.0	5.36	2.41		**2.41**				739.52	739.52				5.36	2.4			740.59	747.59
											12	114.9	0.50			**2.53**	3.2	7.07			0.45%	0.52		
3	0.90	0.59	0.53	0.98	0.8	10.0	5.36	5.25		**5.25**				738.95	738.95				5.36	5.3			740.07	744.50
											18	168	0.30			**5.77**	3.3	4.05			0.25%	0.42		
2	0.95	0.41	0.39	1.37	0.1	10.0	5.36	7.34		**7.34**				738.45	738.45				5.36	7.3			739.65	741.90
											18	366	0.55			**7.81**	4.4	1.95			0.48%	0.18		
1				1.37		10.0	5.36	7.34		**7.34**				738.25	738.25				5.36	7.3			739.45	740.00
SWALE																								
Storm Profile 5-6																								
5	0.95	0.13	0.12	0.12	0.1	10.0	5.36	0.64		**0.64**					740.36				5.36	0.6			740.61	746.40
											6	18	2.00			**0.80**	4.1	5.54			1.14%	0.21		
OUT				0.12		10.0	5.36	0.64		**0.64**				740.00	740.00				5.36	0.6			740.40	741.00
SWALE																								

POST-DEVELOPED DRAINAGE CALCULATIONS

HYDROGRAPH NAME	PERVIOUS AREA: LAWN (SOIL GROUP - C, C=0.40) [ACRES]	IMPERVIOUS AREA: PAVEMENT (ALL SOIL GROUPS, C = 0.95) [ACRES]	TOTAL AREA [ACRES]	WEIGHTED RUNOFF COEFFICIENT, Cw
DRAINAGE AREA TO EX. 1 STRC	0.64	0.20	0.84	0.53
DRAINAGE AREA 'A' TO STRC 2	0.00	0.41	0.41	0.95
DRAINAGE AREA 'B' TO STRC 3	0.05	0.54	0.59	0.90
DRAINAGE AREA 'C' TO STRC 5	0.00	0.13	0.13	0.95

CESO
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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	08/27/2021	CLIENT REVIEW COMMENTS
3	07/11/2022	CWA REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-65206
REGISTERED PROFESSIONAL ENGINEER

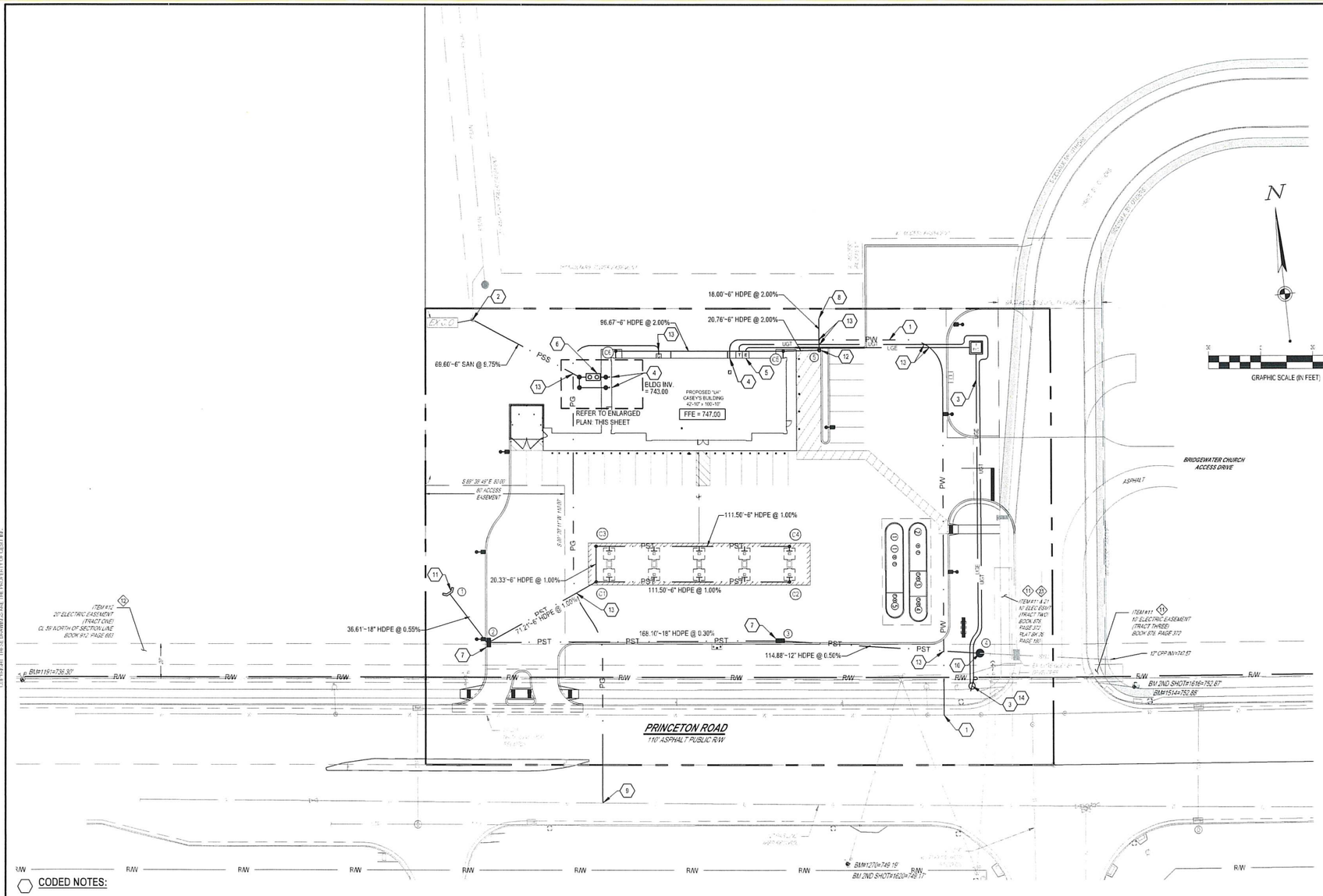
Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

TRIBUTARY AREA MAP

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO.
C-202

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LEGEND

EXISTING

REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

- BUILDING
- CANOPY
- PST — STORM SEWER
- PSS — SANITARY SEWER
- PW — DOMESTIC WATER SERVICE
- PG — GAS SERVICE
- UGE — UNDERGROUND ELEC. LINE
- UGT — UNDERGROUND TEL. LINE
- CLEAN OUT
- GAS METER
- WATER METER
- ELECTRICAL SERVICE ENTRANCE
- GREASE INTERCEPTOR
- MANHOLE
- CURB INLET
- NYLOPLAST DRAIN BASIN
- HEADWALL
- PAD MOUNTED TRANSFORMER

SANITARY SEWER STRUCTURE SCHEDULE

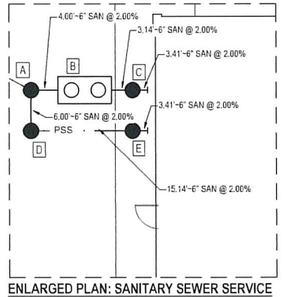
NO.	STRUCTURE	RIM	INVERT
EX C.O.	6" CO	741.15	738.58 (6") SE 729.94 (6") NW
A	6" CO	746.26	742.54 (6") E 742.51 (6") S 736.29 (6") NW
B	GREASE INTERCEPTOR	746.31	742.87 (6") E 742.62 (6") W
C	6" CO	746.91	742.93 (6") E 742.93 (6") W
D	6" CO	746.42	742.63 (6") E 742.63 (6") N
E	6" CO	746.93	742.93 (6") E 742.93 (6") W

STORM SEWER STRUCTURE SCHEDULE

NO.	STRUCTURE	GRATE	INVERT
1	ODOT HW 2.1	N/A	738.25 (18") SE
2	ODOT CB 3A	741.90	738.45 (18") E 740.25 (6") NE 738.45 (18") NW
3	ODOT CB 3A	744.50	738.95 (12") E 738.95 (18") W
4	ODOT MH 1.1	748.90	746.63 (12") E 736.52 (12") W
5	ADS NYLOPLAST 18" DRAIN BASIN W/ 24" SUMP	746.40	740.36 (6") W 740.36 (6") N
C1	6" CLEAN OUT	741.57	740.96 (6") E 740.96 (6") N 740.96 (6") SW
C2	6" CLEAN OUT	742.64	742.08 (6") W
C3	6" CLEAN OUT	741.76	741.16 (6") E 741.17 (6") S
C4	6" CLEAN OUT	742.85	742.26 (6") W
C5	6" CLEAN OUT	746.92	740.76 (6") W 740.76 (6") E
C6	6" CLEAN OUT	746.90	742.71 (6") E
EX 1	EX CULVERT	747.82	746.71 (12") W

CODED NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL 2" COPPER TUBE SIZE POLYETHYLENE PIPING FROM METER TO NEW 2" TAP. CONTRACTOR IS RESPONSIBLE FOR ALL WORK PERMITS WITHIN THE PUBLIC RIGHT-OF-WAY. NEW WATER TAPS WILL NEED TO BE INSTALLED AT WATER MAIN. CONTRACTOR MUST OBTAIN A UTILITY PERMIT FROM BUTLER COUNTY ENGINEER'S OFFICE (BCEO). MARK CONNER. SEE WEBSITE: HTTPS://HH.PERMITS/BCEO.ORG/
2. CONNECT 6" SDR-35 PVC SANITARY SERVICE TO EXISTING SANITARY SEWER CLEANOUT PER BUTLER COUNTY STANDARDS. CONTRACTOR TO FIELD LOCATE AND VERIFY EXISTING SANITARY SEWER LINE. CONTRACTOR TO PROVIDE ALL NECESSARY FITTINGS FOR FINAL CONNECTION. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES.
3. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND THE LOCAL UTILITY COMPANY TO INSTALL PRIMARY RISER AS REQUIRED TO PROVIDE ELECTRICAL SERVICE TO THE PROPOSED BUILDING. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR AND THE LOCAL UTILITY COMPANY TO INSTALL NEW POLE MOUNTED TRANSFORMER.
4. COORDINATE UTILITIES WITH PLUMBING CONTRACTOR. CAP AND MARK FOR FUTURE CONNECTION. FINAL CONNECTION BY PLUMBING CONTRACTOR.
5. ELECTRICAL SERVICE ENTRANCE. ELECTRIC 3-PHASE 800 AMP [illegible] VOLTS. 4-WIRE. 20 PAIR. 8 LINES. COORDINATE WITH ELECTRICAL CONTRACTOR FOR CONNECTION LOCATION OF ELECTRICAL SERVICE.
6. SUPPLY AND INSTALL (1) 1000 GAL. BELOW GRADE GREASE INTERCEPTOR. SEE DETAILS ON SHEET C-604.
7. SUPPLY AND INSTALL (2) ODOT 3A STANDARD CATCH BASIN.
8. 6" OUTLET (NO STRUCTURE). OUTLET INVERT ELEVATION = 740.00.
9. CONNECTION TO GAS MAIN: DUKE ENERGY SHALL FURNISH AND INSTALL GAS LINE FROM METER TO NEW TAP. THE CONTRACTOR SHALL INSTALL THE GAS LINE FROM THE METER TO THE BUILDING SERVICE PER THE BUILDING DRAWINGS. CONTRACTOR MUST OBTAIN A UTILITY PERMIT FROM BUTLER COUNTY ENGINEER'S OFFICE (BCEO). MARK CONNER. SEE WEBSITE: HTTPS://HH.PERMITS/BCEO.ORG/
10. SUPPLY AND INSTALL (1) ODOT 1.1 STANDARD MANHOLE. CONTRACTOR TO CONNECT EXISTING CULVERT EXTENSION PIPE TO PROPOSED MANHOLE FOR TIE-IN.
11. SUPPLY AND INSTALL (1) ODOT 2.1 STANDARD HALF-HEIGHT HEADWALL.
12. SUPPLY AND INSTALL (1) ADS NYLOPLAST DRAIN BASIN. SEE DETAILS ON SHEET C-605.
13. UTILITY CROSSING. CONTRACTOR TO VERIFY ALL LOCATIONS AND DEPTHS OF UTILITIES BEFORE CONSTRUCTION. UTILITIES SHALL HAVE 18" OF VERTICAL SEPARATION.
14. PROPOSED POWER POLE. FINAL LOCATIONS TILL TO BE DETERMINED. CONTRACTOR TO COORDINATE WITH ELECTRIC COMPANY.



ENLARGED PLAN: SANITARY SEWER SERVICE
SCALE: 1" = 10'

BENCHMARK

	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH40008. NORTH SIDE OF PRINCETON ROAD. SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-4013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION. NORTH OF POPEYE'S CHICKEN.
BM #1514	752.88	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE. LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88
NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

OHIO Utilities Protection SERVICE
811 or 1-800-362-2764
Call Before You Dig

CESO
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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY PERMIT COMMENTS
2	09/15/2021	CASEY'S COMMENTS
3	07/11/2022	CIVIL REVISIONS - REBUILT/TIE TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER

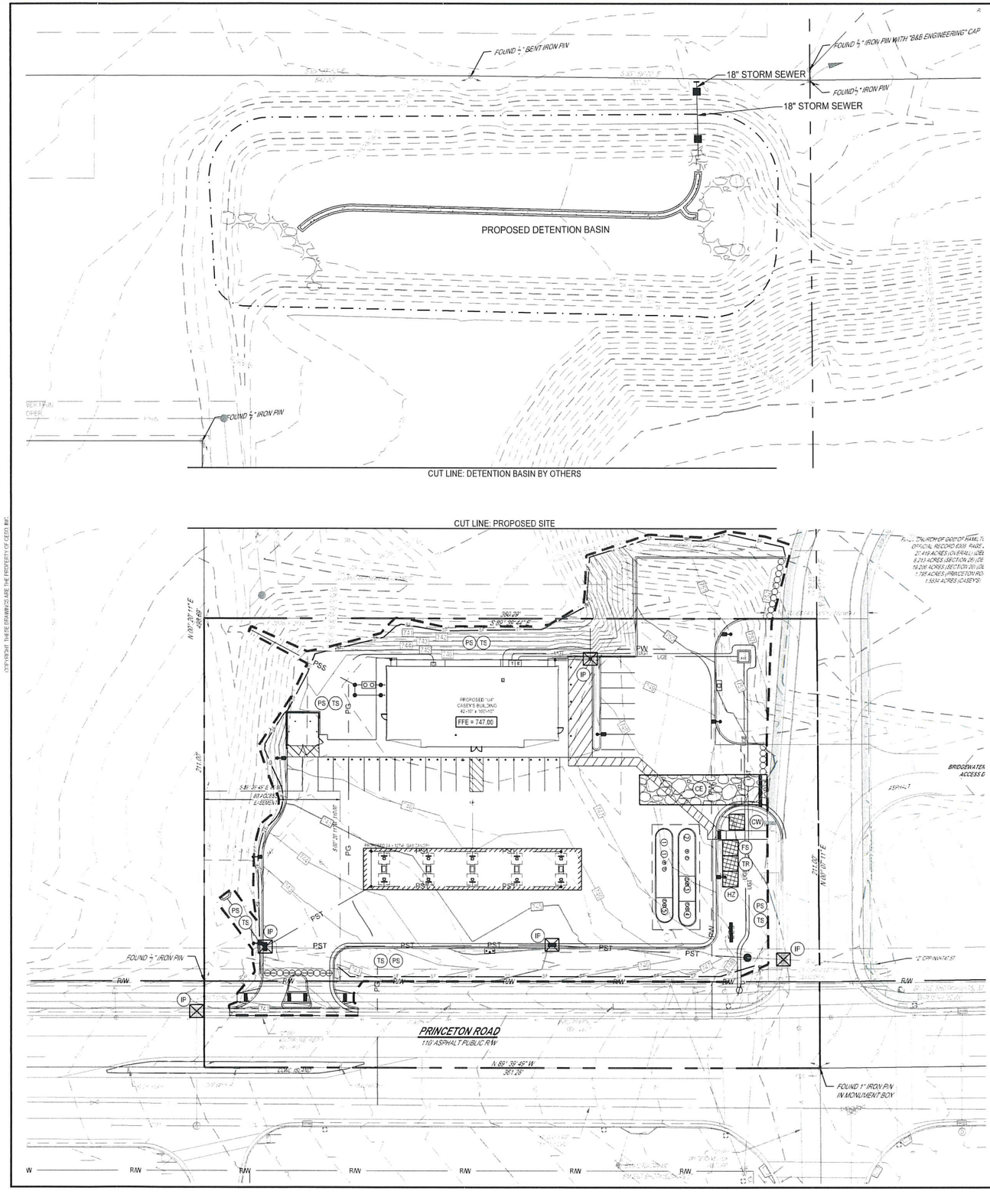
Casey's

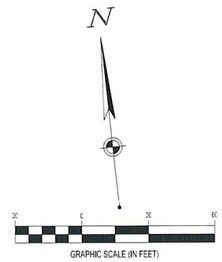
CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

UTILITY PLAN

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO. C-301

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LEGEND

EXISTING

REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

- MAJOR CONTOUR
- MINOR CONTOUR
- STORM SEWER
- SILT FENCE
- STRAW WATTLE NOTE: MIN. 12" DIAMETER PER OEPA PERMIT REQUIREMENTS
- GRADING/SEEDING LIMITS (LIMITS OF DISTURBANCE)
- STABILIZED CONSTRUCTION ENTRANCE (SEE SHEET C-402)
- WASHOUT/STORAGE AREA
- STORM MANHOLE
- CURB INLET
- NYLOPLAST DRAIN BASIN
- HEADWALL
- BASIN SEDIMENT FILTER
- (CE) STABILIZED CONSTRUCTION ENTRANCE
- (CW) CONCRETE WASHOUT
- (TS) TEMPORARY SEEDING
- (PS) PERMANENT SOD
- (IP) INLET PROTECTION
- (FS) FUEL STORAGE AREA
- (TR) TRASH AREA
- (HZ) HAZARDOUS MATERIAL STORAGE

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROJECT NARRATIVE:

PLAN ENGINEERS
CESO, INC.
2600 CORPORATE EXCHANGE DR. SUITE 100
COLUMBUS, OH 43231
PHONE: (614) 942-2017
CONTACT: JEFF LONCHOR

DEVELOPER
CASEY'S GENERAL STORES, INC.
ONE SE CONVENIENCE BLVD.
ANKENY, IA 50021
PHONE (515) 446-6402

THE PROPOSED PROJECT IS THE CONSTRUCTION OF GAS STATION AND CONVENIENCE STORE. THE SUBJECT CASEY'S DEVELOPMENT AREA IS APPROXIMATELY 1.55 ACRES. THE TOTAL POST-DEVELOPED IMPERVIOUS PAVEMENT IS 0.98 ACRES. THE TOTAL DISTURBED AREA IS 1.56 ACRES.

THE ENTIRE SITE DRAINS TO THE ON-SITE STORM SEWER SYSTEM WHICH THEN CONVEYS THE STORMWATER RUNOFF VIA SWALE TO THE OVERALL REGIONAL DETENTION POND FOR ULTIMATE DISCHARGE.

ON-SITE SOILS	DaB - DANA SILT LOAM	94.6%
	WyE2 - WYNN SILT LOAM	5.3%
	XfB - XENIA SILT LOAM	0.1%

HYDROLOGIC SOIL GROUPS: C

EXISTING ON-SITE CONDITIONS: OPEN SPACE

SEQUENCE OF CONSTRUCTION

1. NOTIFY COUNTY ENGINEER BEFORE WORK IS TO BEGIN. 48 HOUR NOTICE TO BE GIVEN TO INSPECTORS: ADRIENNE RICE 513-785-4116 & COREY AUDRETCH 513-785-4125
2. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE, CONSTRUCTION EXIT, FILTER SACKS, CONCRETE WASHOUT.
3. SITE DEMOLITION AND CLEARING.
4. ROUGH GRADING. PROVIDE TEMPORARY SEEDING OF DISTURBED AREAS WHICH ARE INACTIVE.
5. STORM SEWER AND UNDERGROUND UTILITY CONSTRUCTION.
6. BUILDING PAD.
7. CURB CONSTRUCTION.
8. FINE GRADING AND PAVEMENT SUBGRADE PREPARATION.
9. ASPHALT PAVING AND REMAINING CONCRETE FLATWORK.
10. FINAL SEEDING.

* CONTRACTOR SHALL MODIFY THE SEQUENCE OF CONSTRUCTION BASED ON SITE CONDITIONS. CONTRACTOR TO NOTIFY PROJECT MANAGER PRIOR TO CHANGING SEQUENCE OF CONSTRUCTION.

BENCHMARK		
	ELEVATION*	DESCRIPTION
BM #1191	730.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009, NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYES CHICKEN.
BM #1514	752.68	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE, LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88
NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

OHIO Utilities Protection SERVICE
811 or 1-800-362-2764 Call Before You Dig

CESO
WWW.CESOINC.COM

REVISION DESCRIPTION

NO.	DATE	
1	10/26/2021	COUNTY REVIEW COMMENTS
2	11/30/2021	CANOPY REFLECTION REVISION
3	07/11/2022	CIVIL REVISIONS - REBUILD/TRAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER

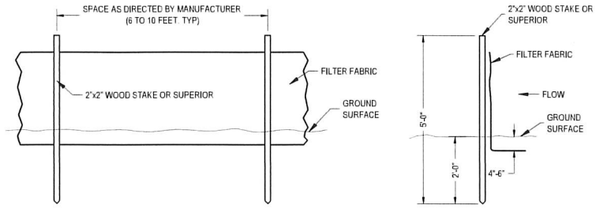
Casey's

CASEY'S
HAMILTON, OH
2964 PRINCETON RD
HAMILTON, OH 45011

SWPPP

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO. C-401

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TEMPORARY SILT FENCE DETAILS

NOT TO SCALE

SILT FENCE NOTES:

FILTER FABRIC SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

FILTER FABRIC SHALL BE MIRAFI 140 FABRIC OR EQUIVALENT. BURLAP CANNOT BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.

STEEL POST SHALL BE 5-4" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.

WOOD POSTS SHALL BE 6-4" TO 7-4" IN HEIGHT AND 2" IN DIAMETER. WIRE FABRIC SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN (6) WIRE STAPLES 1-1/2" LONG.

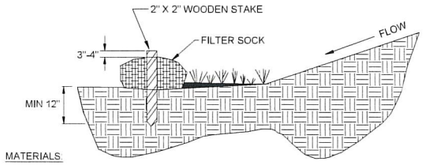
MAINTENANCE NOTES

FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

IF THE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.



MATERIALS:

1. COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
2. FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL. FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

INSTALLATION:

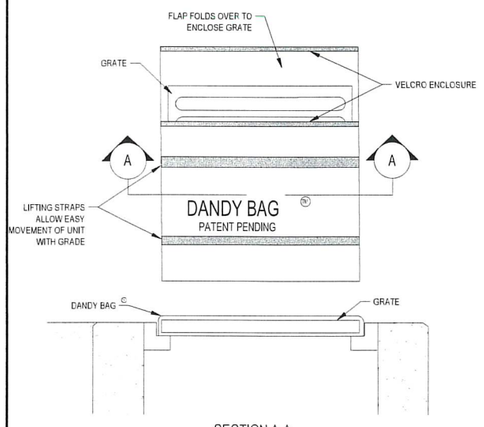
1. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MIDSLOPE.
2. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE:

1. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN. MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
2. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
3. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
4. REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

FILTER SOCK DETAIL

NTS



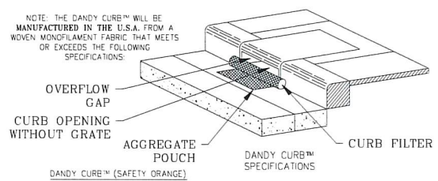
SECTION A-A

INSTALLATION: STAND GRATE ON END PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN, PRESS VELCRO STRIPS TOGETHER. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG. WILL NOT WORK PROPERLY. HOLDING HANDLES. CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME.

MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.

Ⓘ DANDY BAG

NTS



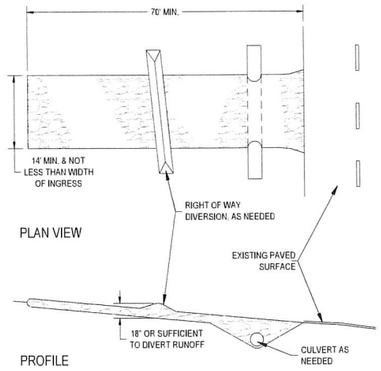
DANDY CURB™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) x 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 x 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permitivity	ASTM D 4491	Sec⁻¹	2.1

*Note: All Dandy Curbs™ can be ordered with our optional oil absorbents

Ⓘ DANDY CURB DETAIL

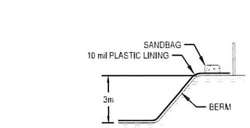
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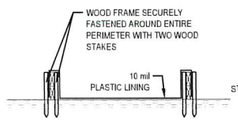
STABILIZED CONSTRUCTION ENTRANCE

NTS

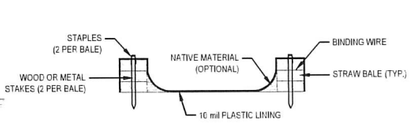
1. AGGREGATE SIZE - ODOT COARSE AGGREGATE GRADATIONS: CA-1, CA-2, CA-2 IS PREFERRED BY BUTLER COUNTY.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS.
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER FABRIC - FILTER FABRIC SHALL BE USED UNDER THE AGGREGATE TO MINIMIZE THE MIGRATION OF STONE INTO THE UNDERLYING SOIL BY HEAVY VEHICLE LOADS. THE FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIALS SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I, II, OR IV.
6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICAL BEFORE MAJOR GRADING ACTIVITIES.
7. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
8. WASHING - IF CONDITIONS ON THE SITE ARE SUCH THAT THE VEHICLES TRAVELING OVER THE GRAVEL DO NOT REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SEDIMENT TRAPPING FACILITY SUCH AS PRACTICE STANDARDS "IMPOUNDMENT STRUCTURE-ROUTED 842 OR TEMPORARY SEDIMENT TRAP 960". ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, WATERCOURSES, OR SURFACE WATERS INCLUDING WETLANDS. A WASH RACK MAY BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
9. LOCATION - THE WASHING STATION SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
10. TIMING - THE GRAVELED ACCESS SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER THE START OF SITE DISTURBANCE.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE DISTURBED AREA IS STABILIZED BY PERMANENT BEST MANAGEMENT PRACTICES.
12. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS OR STREETS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL AGGREGATE. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



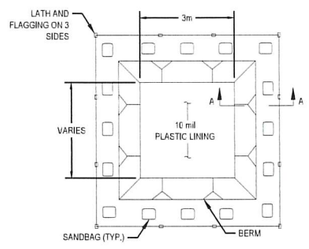
SECTION "A-A"



SECTION "A-A"



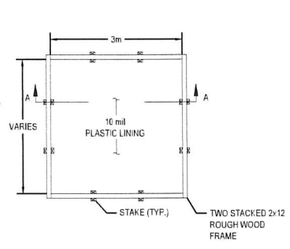
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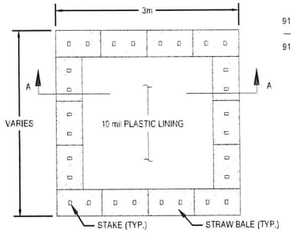
NOTE:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10m OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

"BELOW GRADE"



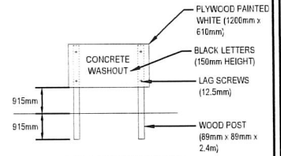
"ABOVE GRADE" w/ WOOD PLANKS



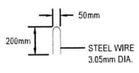
NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10 m OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

PLAN VIEW



CONCRETE WASHOUT SIGN DETAIL



STAPLE DETAIL

Ⓒⓦ CONCRETE WASHOUT DETAIL

NTS

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	08/30/2021	COUNTY REVIEW COMMENTS
3	01/11/2022	FINAL REVISIONS - RESUBMITTAL TO TOWNSHIP

JEFFREY LONCHOR E-85206 REGISTERED PROFESSIONAL ENGINEER STATE OF OHIO

Casey's

CASEY'S

HAMILTON, OH

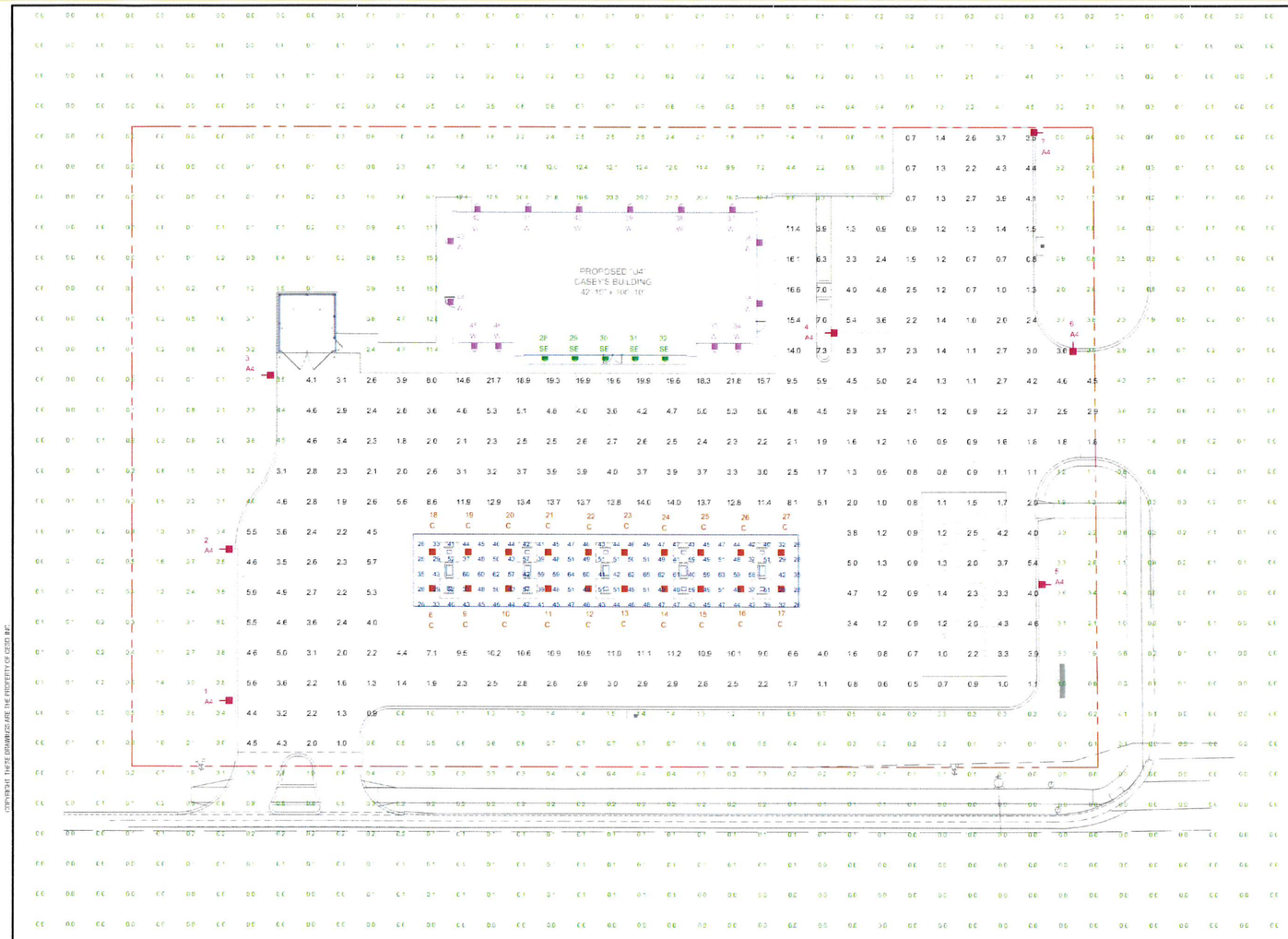
2964 PRINCETON RD
HAMILTON, OH 45011

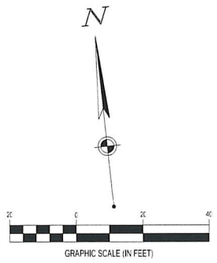
SWPPP DETAILS

ISSUE: CIVIL PERMIT SET	
DATE: 05.19.2021	
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-402

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LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.
1	A4	17
2	A4	17
3	A4	17
4	A4	17
5	A4	17
6	A4	17
7	A4	17
8	C	16.5
9	C	16.5
10	C	16.5
11	C	16.5
12	C	16.5
13	C	16.5
14	C	16.5
15	C	16.5
16	C	16.5
17	C	16.5
18	C	16.5
19	C	16.5
20	C	16.5
21	C	16.5
22	C	16.5
23	C	16.5
24	C	16.5
25	C	16.5
26	C	16.5
27	C	16.5
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29	SE	10
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32	SE	10
33	W	10
34	W	10
35	W	10
36	W	10
37	W	10
38	W	10
39	W	10
40	W	10
41	W	10
42	W	10
43	W	10
44	W	10
45	W	10
46	W	10

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES					
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PAVED AREA	4.29	21.8	0.5	8.58	43.60
UNDEFINED AREA	0.88	23.3	0.0	N.A.	N.A.
UNDER CANOPY	45.51	65	26	1.75	2.50

NOTE:
- ALL AREA LIGHTS ON NEW 15 FT. POLES MOUNTED ON 2 FT. CONCRETE BASES

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	7	A4	SINGLE	11259	1.030	B2-U0-G2	134	938	CREE, INC.	ARE-EDG-4M-DA-06-E-UL-XX-700
	20	C	SINGLE	13251	1.030	B3-U0-G1	134	2680	CREE, INC.	CAN-304-SL-RS-06-E-UL-XX-700
	5	SE	SINGLE	3902	1.030	B2-U0-G0	34	170	CREE, INC.	SFT-228-PS-RM-03-E-UL-XX-350-IC
	14	W	SINGLE	8739	1.030	B2-U0-G2	100	1400	CREE, INC.	SEC-EDG-3M-WM-06-E-UL-XX-525

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REV	BY	DATE	DESCRIPTION
R1	BJM	09/27/2021	REVISED LAYOUT PER NEW SITE PLAN
R2	JMP	01/14/2021	REVISED PER UPDATED SITE PLAN
R3	BJM	05/12/2021	REVISED LAYOUT PER NEW SITE PLAN
R4	RDF	06/20/2022	REVISED PER UPDATED SITE PLAN WITH SMALLER CANOPY

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SCALE	LAYOUT BY
1" = 20'	BJM
DWG SIZE	DATE
D	12/19/2019

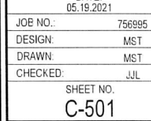
PROJECT NAME
CASEY'S #3847
HAMILTON, OH
DRAWING NUMBER
RL-6515-S1-R4

OHIO Utilities Protection SERVICE
811 or 1-800-362-2764 Call Before You Dig

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NO.	DATE	REVISION DESCRIPTION
1	9/26/2021	COUNTY REVIEW COMMENTS
2	06/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - REQUESTED TO TOWNSHIP





CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

PHOTOMETRIC PLAN

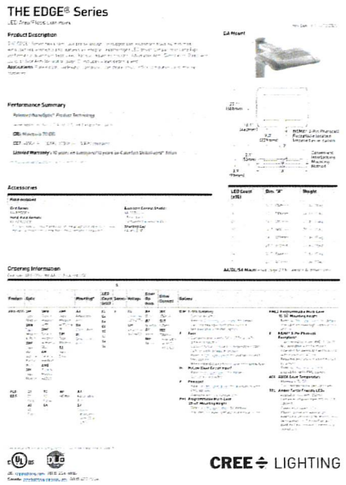
ISSUE:	CIVIL PERMIT SET
DATE:	05.19.2021
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL
SHEET NO.	C-501

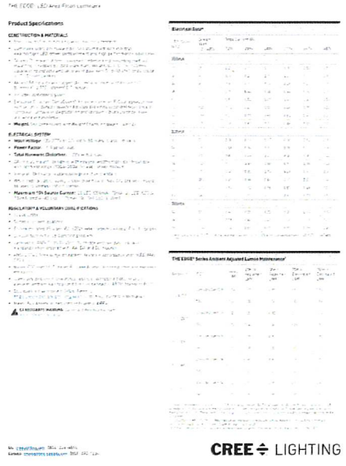
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ADDITIONAL FIXTURE INFO

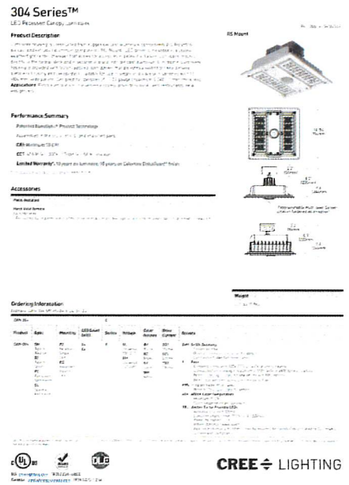


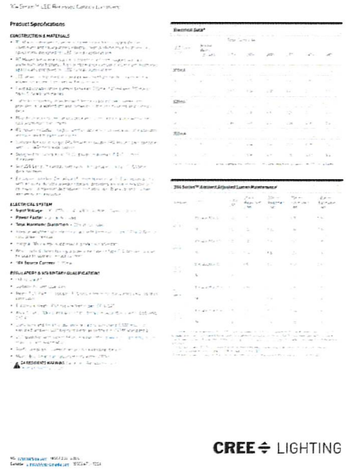


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CANOPY	20	C	CAN-3G4-SL-RS-06-E-UL-XX-700



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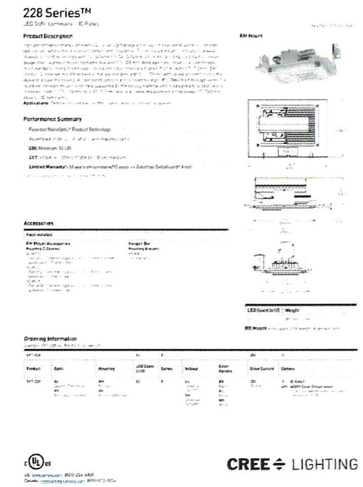


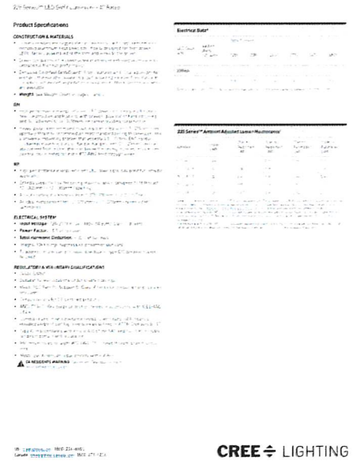


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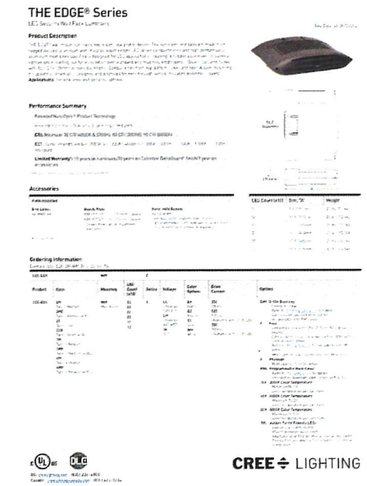


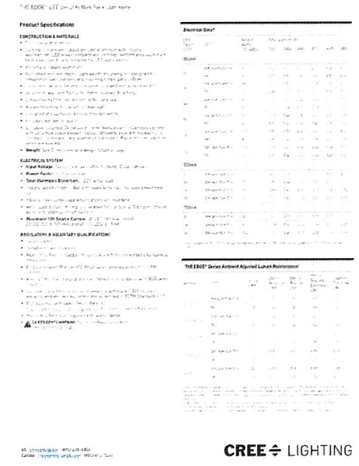


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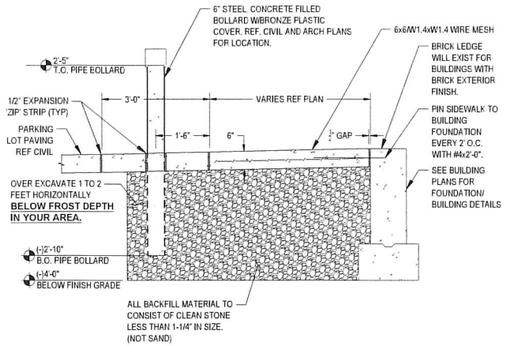




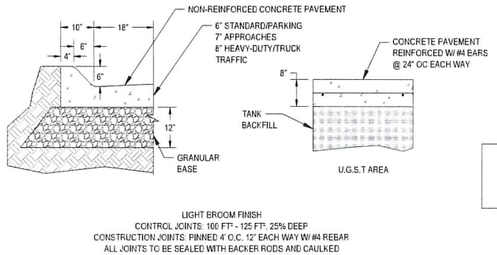
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513-574-9900 redleonard.com

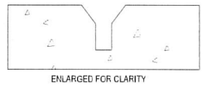
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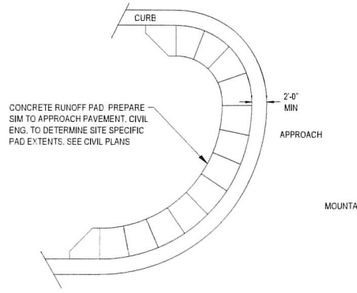
1 TYPICAL BUILDING SIDEWALK AND BOLLARD
NOT TO SCALE



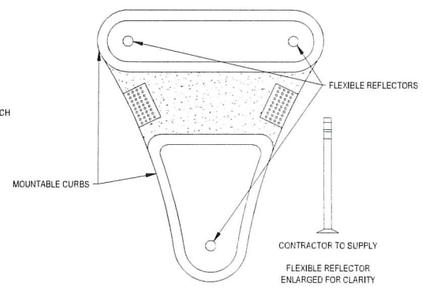
2 CONCRETE PAVING AND CURB
NOT TO SCALE



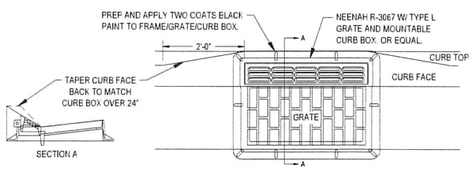
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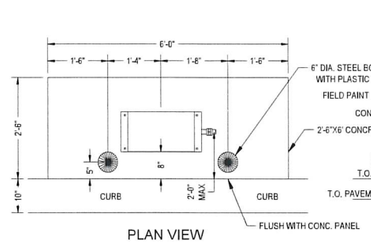
4 LANDSCAPE PROTECTOR
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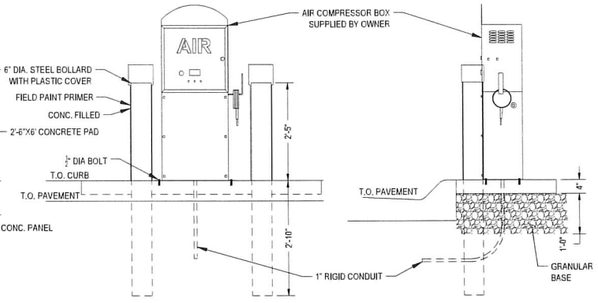
5 PORK CHOP WITH REFLECTORS
NOT TO SCALE



6 CURB INLET
NOT TO SCALE



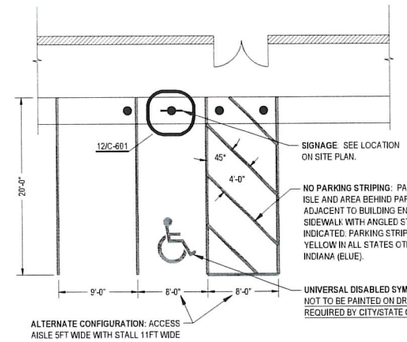
PLAN VIEW



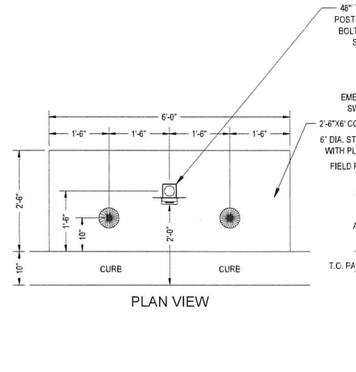
FRONT VIEW

SIDE VIEW

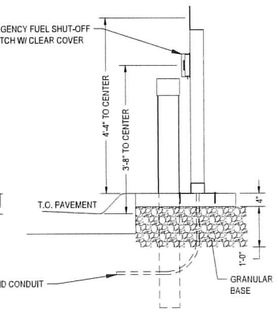
7 AIR COMPRESSOR
NOT TO SCALE



10 ADA PARKING SPACES
NOT TO SCALE



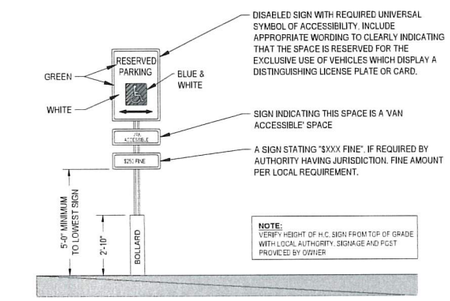
PLAN VIEW



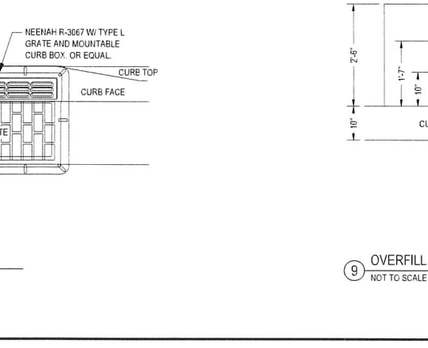
FRONT VIEW

SIDE VIEW

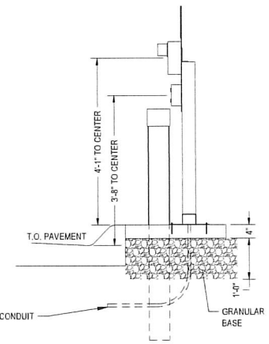
8 EMERGENCY STOP
NOT TO SCALE



11 ADA PARKING SIGN
NOT TO SCALE



PLAN VIEW



FRONT VIEW

SIDE VIEW

9 OVERFILL ALARM
NOT TO SCALE

GENERAL NOTES:

CONCRETE:

1. ALL SOD CONCRETE AND REINFORCING WORK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE'S "STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," (ACI 301).
2. CONCRETE SHALL USE TYPE 2 CEMENT. CONCRETE MIX DESIGNS SHALL MEET THE FOLLOWING REQUIREMENTS:

	MINIMUM 28-DAY F'C	MAXIMUM W/C RATIO	SLUMP	AIR ENTRAIN.
EXTERIOR EXPOSED CONCRETE	4,000 PSI	0.42	4" ± 1"	6% ± 1%

   IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING. THIS SHALL BE DONE UTILIZING A SUPERPLASTICIZER APPROVED BY THE READY MIX DESIGNER AT A DOSAGE RATE PROVIDE BY READY MIX DESIGNER.
3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE (PRIOR TO ADDING SUPERPLASTICIZER) OR CONCRETE THAT CAN BE PLACED WITHIN NINETY (90) MINUTES OF BATCH TIME.
4. NO ALUMINUM SHALL BE PACED IN CONCRETE.
5. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS IN SIMILAR SECTIONS OR AREAS.
6. DURING HOT WEATHER (80 DEGREES F AND ABOVE), THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS ACI-305 "HOT WEATHER CONCRETE". DURING COLD WEATHER (40 DEGREES AND BELOW), THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI-306 "COLD WEATHER CONCRETING."
7. THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE OWNER FOR ACCEPTANCE PRIOR TO CONCRETE BEING DELIVERED TO THE SITE.
8. VERIFY WITH LOCAL AUTHORITIES THE REQUIRED THICKNESS OF POURED CONCRETE FOR APPROACHES AND PARKING LOT.

SUB-BASE:

1. SUB-BASE COURSE UNDER EXTERIOR CONCRETE PAVED SURFACES: SPREAD AND COMPACT SUB-BASE IN 6"-9" LIFTS COMPACTED TO 98% STANDARD PROCTOR.

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	08/25/2021	CASEY REVISIONS/ RESUBMITTAL TO TOWNSHIP
3	07/11/2022	FINAL REVISIONS/ RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-65206
REGISTERED PROFESSIONAL ENGINEER

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

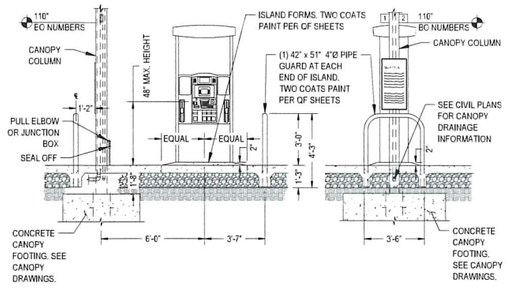
CIVIL DETAILS

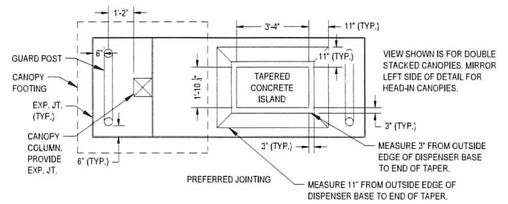
ISSUE: CIVIL PERMIT SET	
DATE: 05.19.2021	
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

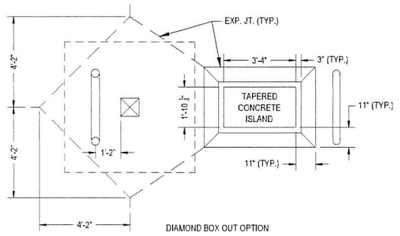
SHEET NO.
C-601

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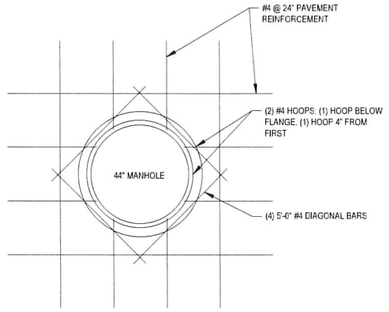
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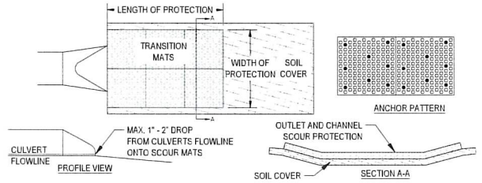
1 GAS TAPERED FUEL ISLAND (PREFERRED OPTION)
NOT TO SCALE



GENERAL NOTES:

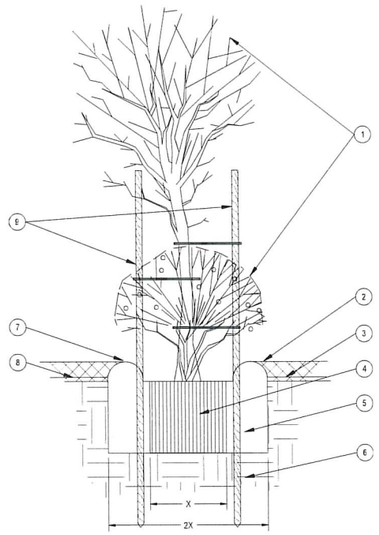
1 ALL REINFORCING IS CENTER OF SLAB.

3 UGST MANHOLE DETAIL
NOT TO SCALE



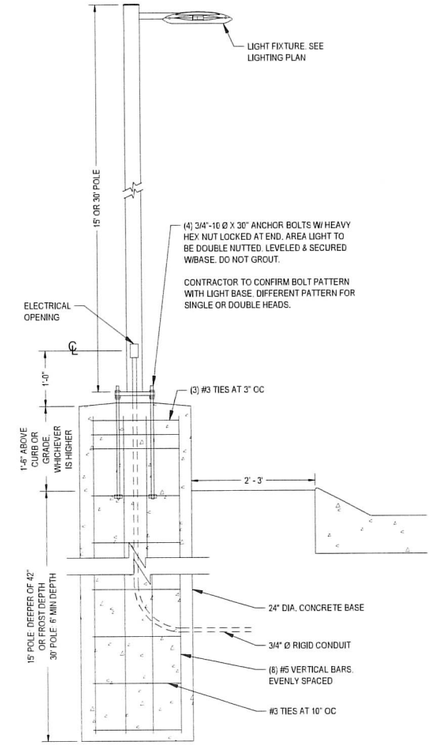
NOTE: INSTALL PER MANUFACTURE'S RECOMMENDATIONS.

4 SCOUR STOP EROSION CONTROL
NOT TO SCALE

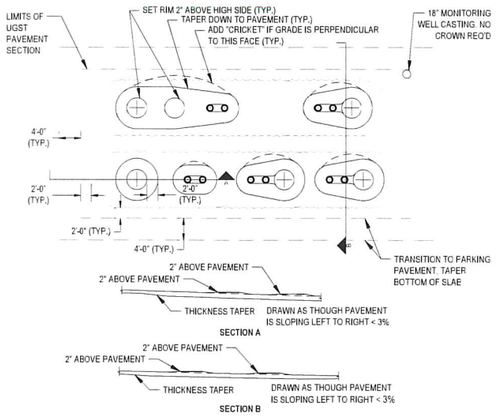


1. TREE/SHRUB. PERENNIAL OR ORNAMENTAL GRASS.
2. GROUNDCOVER. 3" DEPTH OF 3/4" WASHED STONE OR WASHED BRICK CHIPS AS INDICATED IN LANDSCAPING PLAN.
3. FINISH GRADE.
4. ROOT BALL.
5. BACKFILL. AMEND AND FERTILIZE AS RECOMMENDED BY LOCAL SUPPLIER.
6. UNDISTURBED NATIVE SOIL.
7. 3" HIGH EARTHEN WATERING BASIN.
8. HEAVY WEED FABRIC UNDER GROUNDCOVER.
9. FOR TREES. 2 STAKES/GUIDEPOSTS MIN. 3 REQ ON SLOPES WITH TIES

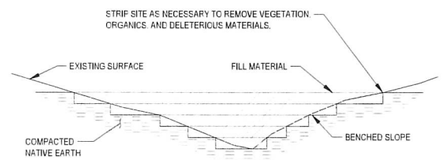
6 PLANT/TREE INSTALLATION
NOT TO SCALE



8 AREA LIGHTING
NOT TO SCALE

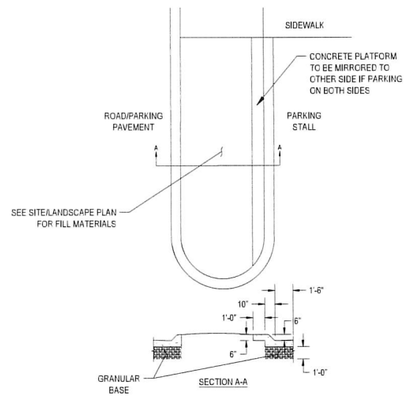


2 UGST PAVING FOR PAVEMENT SLOPE <3%
NOT TO SCALE



NOTES:
1. BENCH SLOPES TO MAINTAIN VERTICAL SIDE SLOPES AT FILL LIMITS +/- 3' VERTICAL TO +/- 8' HORIZONTAL.
2. COMPACTION SHALL BE IN 8" LIFTS TO 95% STANDARD PROCTOR OR OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT.
3. SCARIFY ORIGINAL GROUND AND BLEND WITH FIRST LIFT ON EACH BENCH.
4. ALL FILL MATERIALS, INCLUDING FILL GENERATED ON-SITE, SHALL BE OF SUITABLE MATERIAL. UNSUITABLE FILL MATERIAL INCLUDES, BUT IS NOT LIMITED TO: SOIL THAT CONTAINS LARGE ROCKS, TREE AND PLANT ROOTS, CONCRETE, TRASH, ETC.

5 TYPICAL FILL SECTION
NOT TO SCALE



7 PARKING LANDSCAPE ISLAND DETAIL
NOT TO SCALE

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	08/30/2021	CITY REVIEW COMMENTS
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85206
REGISTERED PROFESSIONAL ENGINEER

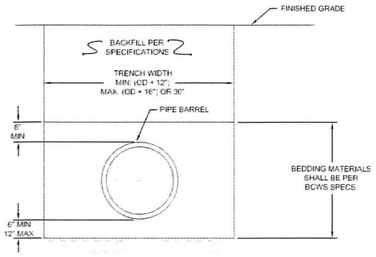
Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

CIVIL DETAILS

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO. C-602

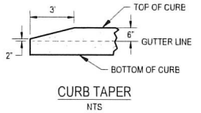
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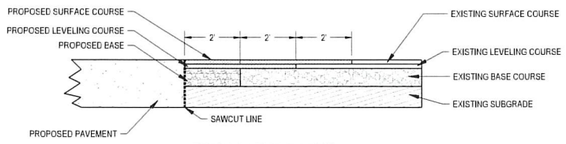
TYPICAL TRENCH DETAIL SEWER INSTALLATION

BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

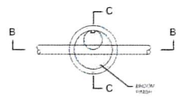
6270



CURB TAPER
NTS

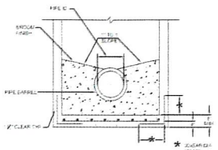


TYPICAL SAWCUT DETAIL
NTS

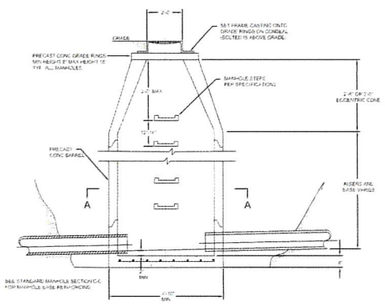


SECTION A - A

MIN. PIPE SIZE (IN.)	SLAB & BARREL REQ'MENT SQ. IN/FT. R.A.
8"-12"	0.40
14"-24"	0.60
27"-42"	0.80
45"-60"	1.00



SECTION C - C

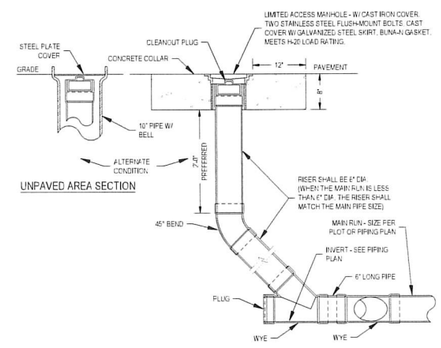


SECTION B - B

STANDARD MANHOLE

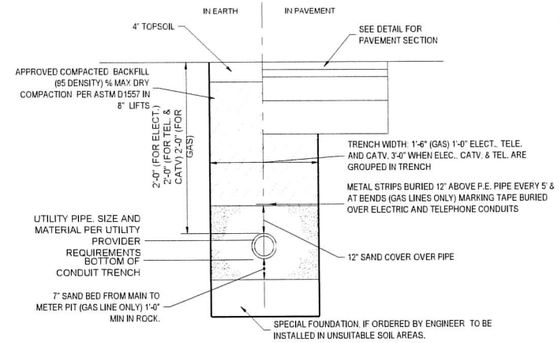
6200

BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

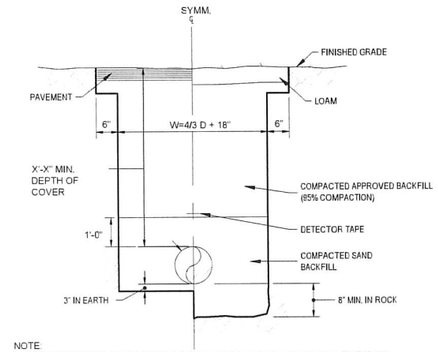


UNPAVED AREA SECTION

PIPE CLEANOUT
NTS

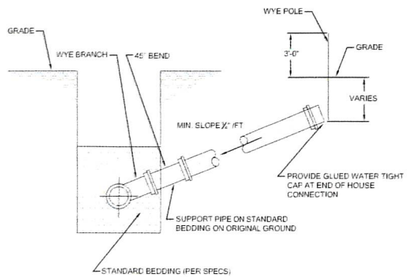


ELECTRICAL, TELEPHONE AND GAS TRENCH
NTS



NOTE:
1. FIRE LINE PIPING AND SERVICE PIPING > 3" I.D. TO BE CLASS 53 DUCTILE IRON WITH RESTRAINED JOINTS 40 FT. EACH SIDE OF ALL FITTINGS, ELBOWS AND APPURTENANCES. DOMESTIC PIPING < 3" I.D. TO BE TYPE K COPPER PER ASTM B 88.
2. NOTE: PIPING TO BE HYDROSTATIC TESTED 2 HOURS @ 100 PSI. OVER NORMAL OPERATING PRESSURE AFTER INSTALLATION

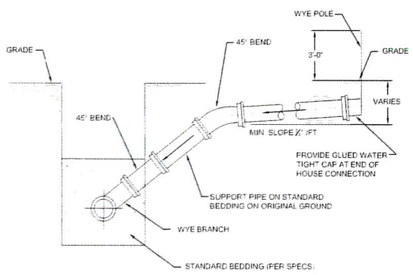
TYPICAL WATER MAIN & SERVICE TRENCH DETAIL
NTS



HOUSE CONNECTION FOR SHALLOW SEWER

BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

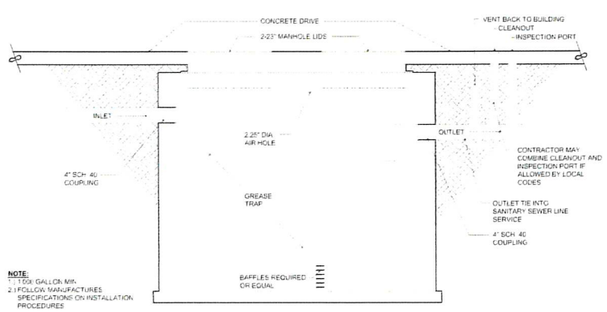
6290



HOUSE CONNECTION FOR DEEP SEWER

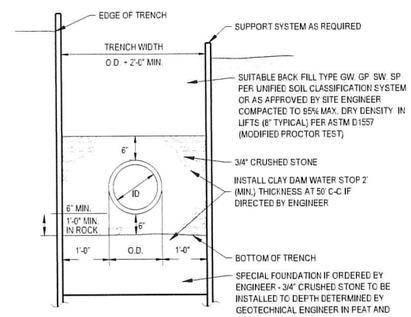
BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6280



NOTE:
1. 1,000 GALLON MIN.
2. FOLLOW MANUFACTURES SPECIFICATIONS ON INSTALLATION PROCEDURES

GREASE INTERCEPTOR
NTS



TYPICAL SANITARY SEWER TRENCH SECTION
NTS

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NO.	DATE	REVISION DESCRIPTION
1	07/30/2021	COUNTY REVIEW COMMENTS
2	09/03/2021	CANOPY REDUCTION REVISION
3	09/13/2021	SSM REVISIONS - RES. SEWER TAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHAR
E-85208
REGISTERED PROFESSIONAL ENGINEER

Casey's

CASEY'S
HAMILTON, OH
2594 PRINCETON RD
HAMILTON, OH 45011

CONSTRUCTION DETAILS

ISSUE: CIVIL PERMIT SET	
DATE: 05.19.2021	
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-604

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Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

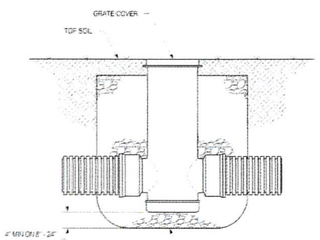
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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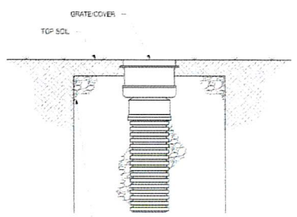
DRAWN BY: CJA	MATERIAL:	Nyloplast	2120 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE: 3-10-06			
REVISED BY: MBH	PROJECT NO./NAME:	TITLE: 6 IN - 36 IN DRAIN BASIN SPECIFICATIONS	
DATE: 02-21-18			
DWG SIZE: A	SCALE: 1:1 SHEET: 1 OF 1	DWG NO: 7001-110-211	REV: J

NON TRAFFIC INSTALLATION

DRAIN BASIN



INLINE DRAIN



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DATE: 9-26-96			
REVISED BY: MBH	PROJECT NO./NAME:	TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION	
DATE: 03-11-98			
DWG SIZE: A	SCALE: 1:25 SHEET: 1 OF 1	DWG NO: 7001-110-111	REV: E

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	09/10/2021	CITY REVIEW COMMENTS
3	01/13/2022	CRA REVISIONS - RELABEL TO TOWNSHIP

JEFFREY LONCHOR E-65208 REGISTERED PROFESSIONAL ENGINEER STATE OF OHIO

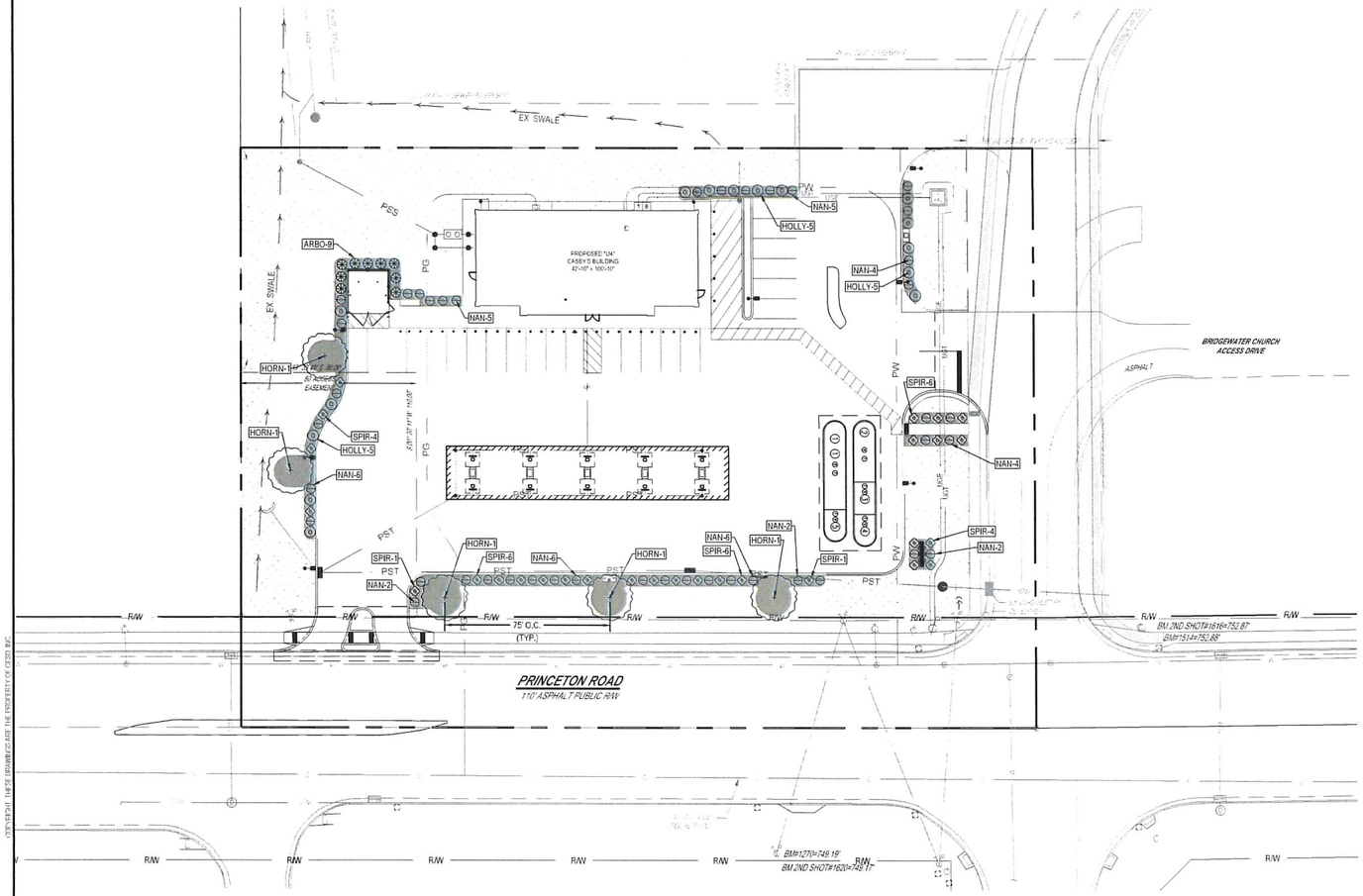
Casey's

CASEY'S
HAMILTON, OH
2904 PRINCETON RD
HAMILTON, OH 45011

CONSTRUCTION DETAILS

ISSUE:	CIVIL PERMIT SET
DATE:	05.19.2021
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL
SHEET NO.	C-605

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N

GRAPHIC SCALE (IN FEET)

LEGEND

EXISTING

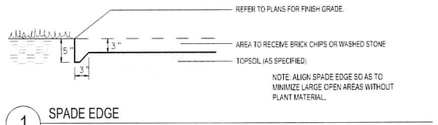
REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

SOD / IRRIGATION EXTENTS (OPEN SPACE)

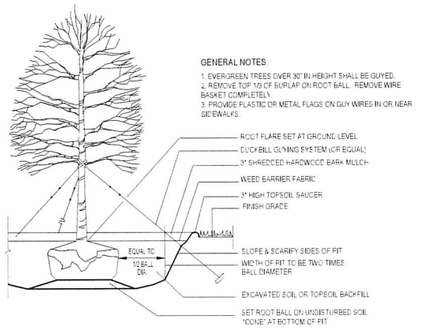
LANDSCAPE BED / BRICK CHIPS (OPEN SPACE)

SHRUBS / TREES



1 SPADE EDGE

NO SCALE



GENERAL NOTES:

1. EVERGREEN TREES OVER 30" IN HEIGHT SHALL BE GUYED.
2. REMOVE TOP 1/3 OF BURLAP ON ROOT BALL. REMOVE WIRE BASKET COMPLETELY.
3. PROVIDE PLASTIC OR METAL FLAGS ON GUY WIRES IN OR NEAR SIDEWALKS.

2 TREE PLANTING

NO SCALE

NOTE:
SEE SHRUB INSTALLATION DETAIL 8 ON SHEET C-601.

LANDSCAPING GENERAL NOTES:

1. ALL SOD TO BE IRRIGATED.
2. IRRIGATION TO EE DESIGNED EY CONTRACTOR

LANDSCAPING REQUIREMENTS:

1. MINIMUM GREEN SPACE:
   REQUIRED: 0.20 x 1.747 ACRES = 0.349 ACRES (20%)
   PROPOSED: 0.578 ACRES (33%)
2. SCREENING:
   REQUIRED: SCREENING AT REAR AND SIDE LOT LINES AS APPROVED BY THE BOARD OF FAIRFIELD TOWNSHIP TRUSTEES.
   PROPOSED: SHRUBS AS SHOWN ON THIS SHEET. SEE PLANT MATERIAL LIST ON THIS SHEET FOR SHRUE MATURE HEIGHT AND WIDTH.

PLANT MATERIAL LIST

SYM.	QTY.	PLANT NAME	NICKNAME	MATURE HT/SPD	SPACING	PLANTING SIZE
		SHRUBS				
⊙	14	'COMPACTA' JAPANESE HOLLY	HOLLY	6' / 6'	AS SHOWN	3 GAL.
⊖	34	'FIREPOWER' DWARF NANDINA	NAN	2.5' / 2.5'	AS SHOWN	1 GAL.
✿	22	'GOLDFLAME' SPIREA	SPIR	3' / 4'	AS SHOWN	1 GAL.
		EVERGREEN TREES				
✳	9	'EMERALD GREEN' ARBORVITAE	ARBO	8' / 4'	AS SHOWN	4' TALL
		TREES				
+	5	'AMERICAN HORNBEAM' CARPINUS CAROLINIANA	HORN	30' / 25'	AS SHOWN	2.5" CALIPER

OHIO Utilities Protection SERVICE
811 or 1-800-362-2764 Call Before You Dig

CESO
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NO.	DATE	REVISION DESCRIPTION
1	07/30/2021	COUNTY RESPONSE COMMENTS
2	08/30/2021	CANOPY REDUCTION REVISION
3	07/11/2022	CDM, REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85206
REGISTERED PROFESSIONAL ENGINEER

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

LANDSCAPE PLAN

ISSUE: CIVIL PERMIT SET	
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